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Indian Standard
CLASSIFICATION OF
COMMERCIAL TIMBERS AND THEIR
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Indian Standard

CLASSIFICATION OF COMMERCIAL TIMBERS AND THEIR ZONAL DISTRIBUTION (Revised)

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Indian Standard

CLASSIFICATION OF COMMERCIAL TIMBERS AND THEIR ZONAL DISTRIBUTION (Revised)

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 30 September 1963, after the draft finalized by the Timber Sectional Committee had been approved by the Building Division Council.

0.2 In the Indian Standard Classification of Commercial Timbers and Their Zonal Distribution (IS: 399-1952), first published in 1952, all values and quantities were specified in fps units. The present revision was undertaken not only for metricizing the standard but also for effecting other important changes. In addition to the average weight per cubic metre (cubic foot) of various species of timber, the range of weight has also been given. Other important additions made are the incorporation of abbreviated symbols for each species of timber and the comparative strength coefficients. Besides, a few more species have been included in the various zones.

0.3 Timber is required for a number of uses, and is procured from different parts of India by the purchasing departments of the Central and State Governments, and by the trade and industry. Sometimes, it does happen that timber is transported over long distances for some specific services when species suitable for the purpose could, with some effort, be secured from nearby sources. The reason for this appears to be that the forest contractors and the timber trade are generally not aware of the properties and uses of the various timbers they purchase from the forest departments. The users are also often unaware of the species that could be used for their particular requirements in place of the costlier timbers they obtain from distant sources. It was, therefore, considered necessary that information should be made available to the purchasing departments, the users, the timber trade and the forest contractors on classification of various important Indian timbers according to their commercial availability in the various zones and their main uses.

0.4 The principal foreign source of supplies of timber to India at present is Nepal, which contributes a very large quantity of sal, sissoo, haldu and other hardwoods to the North and East Zones. Nepalese names are commonly known in these regions and they have, therefore, been included.

0.5 For the purposes of this standard, India has been divided into five zones (*see* Map on p. 85), keeping in view the principal timber-consuming centres and the forest areas which feed them. This, however, does not mean that timbers grown in one zone are not available in the other. For instance, coniferous species, such as fir and spruce, grow in the western Himalayas in the North Zone, but they are in large demand in Calcutta and Bombay for certain uses for which they are ideally suited. Andamans supply large quantities of timber to Calcutta, but a fair amount is also shipped to Madras, where it finds a ready market. The city of Bombay is largely dependent upon supplies from West Coast of Mysore, Kerala, Coastal Madras, and Andhra so that many of the timbers listed in the South Zone are also commercially available there. Such limitations, as pointed out here, are quite natural to a classification of this type covering the whole of India, and it is left to the user to keep them in view when making use of this standard.

0.6 The local names of timbers vary not only according to linguistic regions, which are far too numerous themselves, but even within one linguistic region there are dialectal variations so that it is not an easy task at present to standardize the names both in regard to their pronunciation and their spelling in Roman. The Forest Research Institute and Colleges at Dehra Dun publishes from time to time a list of trade names of important Indian timbers, together with their botanical equivalents, so as to popularize the use of certain names in the timber trade throughout the country. In the preparation of this standard, the usage adopted by the Forest Research Institute and Colleges, Dehra Dun, has been followed, and the classification is alphabetically arranged according to the botanical names revised particularly in the light of the latest nomenclature given in the article 'Name Changes in Common Indian Plants' published in the *Indian Forester*; Vol 84, No. 8; (1958). Trade names are based on the Official List of Trade Names of Indian Timbers, Indian Forest Records, Utilization, Vol 1, No. 7, (1938): Indian Woods, Their Identification, Properties and Uses Vol I, 1958, Vol II, 1963; and Standard Nomenclature of the Exportable Timbers of the

Asia-Pacific Region, Food and Agriculture Organization of the United Nations—Rome 1960. These have been designated as standard trade names. In the case of the species not covered by the above publications, the Committee has itself chosen appropriate standard trade names. These standard names are given in col 2 of Tables I to V (see p. 7-53). Abbreviated symbols of these trade names, based mainly on IS:1150-1957 Abbreviated Symbols for Timber Species, are given in col 3 of Tables I to V and these can be used as identification marks for bulk timber supplied to stock depots from the trade in mixed condition during transit or for storage purposes. Some of the more important local names prevalent within respective zones are given in col 4 of Tables I to V. Most of the local names have been supplied by the Forest Departments concerned. These names have been separately indexed in alphabetical order. As stated above, no effort has been made to indicate the pronunciation. The spellings of a number of local and trade names are not to be considered as final. They are, however, in accordance with well-established usage. It is hoped that in due course the forest departments will try to standardize the local names and that this standard will prove helpful to them for this purpose.

NOTE — For ease of reading, the local names have not been italicized.

0.7 In order to increase the utility of the standard, information on various aspects of timber utilization has been included in Tables I to V. Column 5 of the tables gives a general idea of the availability of the various species within a zone. Columns 6 and 7 give the average weight and the range of weights of air-seasoned timber in kilograms per cubic metre and pounds per cubic foot respectively. A broad classification of the durability of timber is given in col 8. Column 9 records the degree of amenability of a timber to antiseptic treatment under pressure. Column 10 gives an idea of the refractoriness of a timber to air

seasoning, based on the extent of cracking and splitting to which a timber is liable under normal practice of air seasoning. Column 11 provides a strength coefficient of timber for the particular use in question based on a coefficient of 100 for teak. This column has been added to enhance the value of the standard by evolving a suitable composite figure for each use. This classification details briefly whatever information is available up-to-date. Lack of adequate data on which to base information under the various columns has been indicated by a dash.

0.7.1 The figures for strength coefficients for various uses for all the timbers have been supplied by the Forest Research Institute and Colleges, Dehra Dun. The method adopted in determining strength coefficients is based on 'Evaluation of Suitability Indices for Comparison of Different Species for Use in Different Industrial and Engineering Fields' appearing in Proceedings of the Symposium on Timber and Allied Products, National Buildings Organization, New Delhi, (1959), and on the figures given in 'Grouping of Indian Timbers and Their Properties, Uses and Suitability'—Indian Forest Records, New Series, Timber Mechanics, Vol I, No. 2, 1954.

0.8 The Sectional Committee responsible for the preparation of this standard has taken into consideration the views of the producers, consumers and technologists and has related the standard to the trade practices followed in the country in this field.

0.9 Metric system has been adopted in India and all quantities and dimensions appearing in this standard have been given in this system. However, weights of timber have also been given in the foot pound units to facilitate a smooth change-over.

0.10 Wherever a reference to any Indian Standard appears in this standard, it shall be taken as a reference to its latest version.

1. SCOPE

1.1 This standard details the zonal distribution of common commercial timbers of India, classified according to their various uses, and gives information on the availability of these timbers and on some of their important properties.

2. USES

2.1 The uses are classified under the following categories:

- a) Constructional purposes, including building construction, house-posts, beams, rafters, cart-building, bridges, piles, poles and railway sleepers;
- b) Furniture and cabinet making;
- c) Light packing cases;

- d) Heavy packing cases (for machinery and similar stores);
- e) Agricultural implements and tool handles;
- f) Turnery articles and toys; and
- g) Veneers and plywood.

3. ZONES

3.1 In addition to India, the zones include territories of Sikkim and Bhutan. The territories comprising India, and Sikkim and Bhutan have been divided into five zones as indicated on the Map (see p. 85), which comprise roughly the following areas:

I North Zone Jammu and Kashmir, Punjab, Himachal Pradesh, Delhi, Uttar Pradesh and Rajasthan

II East Zone	Assam, Manipur, Tripura, West Bengal, Bihar, Orissa, Sikkim, Bhutan, Andamans, North East Frontier Agency and Nagaland
III Centre Zone	Madhya Pradesh, Vidharbha areas of Maharashtra State and the north east part of Andhra Pradesh (Godavari delta area)
IV West Zone	Maharashtra State (except Vidharbha areas), Gujarat and north west part of Mysore
V South Zone	Madras, Andhra Pradesh (except the Godavari delta area), Kerala and Mysore (except north west part)

4. CLASSIFICATION

4.0 Tables I, II, III, IV and V list respectively important timbers commercially available in the five zones described under 3 and classified according to their uses given under 2. Against each species of timber, the availability in that zone, average weight and the range of weight of air-seasoned timber in kg/m³ and lb/ft³, durability, treatability, refractoriness to air seasoning and strength coefficient are given.

4.1 Availability — The availability of timbers is categorized under three classes indicated below:

- X : Most common, 1 415 m³ (1 000 tonnes) and more per year
- Y : Common, 355 m³ (250 tonnes) to 1 415 m³ (1 000 tonnes) per year
- Z : Less common, below 355 m³ (250 tonnes) per year

The figures are largely based on the information supplied by various forest departments. It should be explained here that these figures refer to the quantities that could be made available every year, although due to various difficulties connected with the economic extraction of these species, the actual quantities commercially available at present may be far too small. For instance, Indian oaks, birch, maple, walnut, ash, etc, which occur in hill forests, are so costly and difficult to extract that their exploitation is possible only for such purposes where the cost of extraction is justified by the use in view. Walnut and maple trees are converted in the forest into rifle half-wroughts, which are carried by men, mules and lorries over long distances, as there are no suitable substitutes for them among the timbers available in the plains. With the building of new hill roads and improvement of old ones, it is hoped that these forests will gradually become important sources of timber supply to the country. Then, again, there are certain timbers available from fields, road-sides, canal banks, tea gardens, etc, such as mango, toon, sissoo and silver oak. In compiling the

index of availability, all such sources have been taken into consideration. Every care has been taken in arriving at an accurate estimate of availability, but it may be stressed that it is not practicable to obtain adequately detailed and reliable data on the subject.

4.2 Weight Per Cubic Metre (or Cubic Foot) —

The figures for the average weight and the range of weights per cubic metre (cft) at 12 percent moisture content for all the timbers have been supplied by the Forest Research Institute and Colleges, Dehra Dun and are based generally on a very large number of samples of each species in a particular zone or from other zones. The range of weights is given below the average weight in parentheses. The density of a timber often varies according to the climatic and soil conditions of the place where a particular species is grown, and even in a single tree may vary from the bottom to the top, and from the centre to the periphery of the bole. The figures given here represent a fair range for the species but, in individual cases, slight deviations on either side are possible.

4.3 Durability — The figures given here are based on the 'graveyard' tests carried out in the open, at the Forest Research Institute and Colleges, Dehra Dun, in which test specimens of size 24 × 2 × 2 in. of heartwood were buried in the ground to half their lengths. The condition of the specimens was examined at frequent intervals and from these observations, their average useful life has been calculated. The timbers are classified for durability according to the average life of these test specimens as follows:

- High : Timbers having average life of 120 months and over
- Moderate : Timbers having average life of less than 120 months but of 60 months or over
- Low : Timbers having average life of less than 60 months

It is necessary to explain here that the actual life of a timber in use depends largely upon the local conditions of soil and climate. The classification made in this standard, therefore, serves merely to give a comparative value of the durability of various timbers when used in exposed situations subject to atmospheric variations, and in contact with the ground.

4.4 Treatability — The classification is based on experiments carried out at the Forest Research Institute and Colleges, Dehra Dun, on the pressure treatments of various timbers with creosote-crude oil mixtures and with water-soluble preservatives, under conditions of treatment which are normally used for these processes. The classification should, therefore, be taken to represent approximately the degree of resistance offered by the heartwood of a species to the penetration of the preservative fluid under working pressure of 10.5 kg/cm². In

the case of treatment with creosote-crude oil mixture, the liquid is usually heated to 80° to 90°C; but with aqueous solutions, the treatment is generally done in the cold to avoid precipitation of the chemicals [see IS: 401-1961 Code of Practice for Preservation of Timber (*Revised*)].

The treatability of timbers has been classified as follows:

- a: Heartwood easily treatable
- b: Heartwood treatable, but complete penetration of preservative not always obtained
- c: Heartwood only partially treatable
- d: Heartwood refractory to treatment
- e: Heartwood very refractory to treatment, penetration of preservative being practically nil from side or end

4.5 Refractoriness to Air Seasoning — The timbers are classified, as stated below, under three categories, depending upon their behaviour with respect to cracking and splitting during normal air-seasoning practice suitable for the species concerned:

High refractoriness (indicated 'High' in the tables),

Moderate refractoriness (indicated 'Moderate' in the tables), and

Low refractoriness (indicated 'Low' in the tables).

4.6 Comparative Strength Coefficient — The figures for comparative strength coefficients for various uses for all the timbers have been arrived at by suitably grouping the various important mechanical properties that come into play for any particular use, and giving due weightage to the

relative importance of these properties. Variations in basic mechanical properties in the green and dry conditions have been taken into consideration. While using the figures given in this standard, it may be remembered that they serve only as a guide for selection of relatively superior or inferior species, from physical and mechanical aspects. The higher the figure, the more suitable it is for the purpose than the species having a lower figure. It should be remembered that these figures do not serve as design criteria or for deciding dimensions and shapes of the material required for any use. For the present, these figures cover only main uses, such as construction, furniture, packing cases, and tool handles. The comparative strength coefficients have been expressed as a percentage of strength coefficient of teak.

4.7 The following abbreviations have been used in the tables:

And	Andamans
Asm	Assam
Ben	Bengali
Guj	Gujarati
Hin	Hindi
HP	Himachal Pradesh
Kan	Kannada
Kash	Kashmir
Kol	Koli
Mal	Malayalam
Manip	Manipur
Mar	Marathi
MP	Madhya Pradesh
Nep	Nepali
Pun	Punjabi
sp.	Species
Syn.	Synonym
Tam	Tamil
Tel	Telugu

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE

(Clause 4)

NOTE — An obelisk (†) against the class of availability of a species indicates that the timber grows in hilly areas, and on account of the difficulty and high cost of extraction, it is not fully exploited at present.

Mark (‡) against a species indicates matchwood.

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASE OF TEAK 13 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. CONSTRUCTIONAL PURPOSES										
a) Coniferous										
<i>Abies pindrow</i> Royle <i>Abies spectabilis</i> Spach. (Syn. <i>Abies webbiana</i> Lindl.)	fir	FIR	morinda (Hin), pand, rai, tosh (HP), partal (Pun)	X	450 (335-690)	28 (21-43)	Low	d	Low	70
<i>Cedrus deodara</i> Loudon		DEO	deodar (Hin), kelo, kelon (HP), diar (Pun)	X	545 (465-705)	34 (29-44)	High	c	Low	80
<i>Cupressus torulosa</i> Don	cypress	CYP	devidiar, leuri (Hin), saro (HP), surai (Kumaon)	Y	515 (430-610)	32 (27-38)	High	c	Low	75
<i>Picea smithiana</i> Boiss. (Syn. <i>Picea morinda</i> Link.)	spruce	SPR	partal, rai (Pun)	X	480 (290-655)	30 (18-41)	Low	d	Low	70
<i>Pinus roxburghii</i> Sargent (Syn. <i>Pinus longifolia</i> Roxb.)	chir	CHR	chir (Hin), chil (Pun)	X	575 (430-755)	36 (27-47)	Low	b	Low	70
<i>Pinus wallichiana</i> A. B. Jacks. (Syn. <i>Pinus excelsa</i> Wall.)	kail	KAL	kail (Hin)	X	515 (400-690)	32 (25-43)	Low	c	Low	60
b) Broad Leaved (Non-coniferous)										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Hin), kikar (Pun)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	105
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin)	X	1010 (880-1170)	63 (55-73)	High	—	High	120
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Hin)	X	675 (595-735)	42 (37-46)	Low	a	Moderate	80
<i>Albizzia lebeck</i> Benth.	kokko	KOK	siris (Hin), sarin, shrin (Pun)	Y	640 (480-755)	40 (30-47)	High	c	Moderate	90
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kala siris (Hin), kurmuru (Pun)	Y	735 (595-1010)	46 (37-63)	High	e	Moderate	120
<i>Albizzia procera</i> Benth	safed-siris	SSI	safed siris (Hin)	Y	640 (495-835)	40 (31-52)	Moderate	c	Moderate	85
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bakli, dhaura (Hin), chhal (HP), dhao (Pun)	X	900 (785-995)	56 (49-62)	Low	c	High	95
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	75

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE --- Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Schleichera oleosa</i> Oken. (Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	kusum (Hin)	Z	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	140
<i>Shorea robusta</i> Gaertn. f.	sal	SAL	sakhu, sal (Hin)	X	865 (675-1 040)	54 (42-65)	High	c	High	120
<i>Stereospermum personatum</i> (Hassk.) Chatt. (Syn. <i>Stereospermum cholonoides</i> DC.)	padri	PAD	padal, paral (Hin)	Y	720 (560-975)	45 (35-61)	Low	--	Moderate	85
<i>Stereospermum suaveolens</i> DC. (Syn. <i>Eugenia jambolana</i> Lamk.)										
<i>Syzygium cumini</i> Skeels (Syn. <i>Eugenia jambolana</i> Lamk.)	jamun	JAM	jamun (Hin)	X	785 (705-815)	49 (44-51)	Moderate	c	High	95
<i>Tamarix aphylla</i> (Linn.) Karst. (Syn. <i>Tamarix articulata</i> Vahl.)	frash	FRA	jhao, jhau (Hin), okan, pharwan (Pun)	Y	675 (—)	42 (—)	--	--	Moderate	--
<i>Terminalia arjuna</i> W & A.	arjun	ARJ	arjun (Hin)	Z	815 (640-995)	51 (40-62)	Moderate	b	Moderate	70
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	bahera (Hin), bhaira (Pun)	X	815 (675-900)	51 (42-56)	Low	b	Moderate	105
<i>Terminalia chebula</i> Retz.	myri.bolan	MYR	hararh, harr (Hin), harar (Pun)	Y	945 (755-1 140)	59 (47-71)	Low	c	High	105
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asna, sain (Hin), aisan (Pun)	X	850 (610-960)	53 (38-60)	Moderate	b	High	100
<i>Ulmus wallichiana</i> Planch.	elm	ELM	emori (Hin), marcen (Pun)	†Z	530 (350-675)	33 (22-42)	Low	--	Low	45

2. FURNITURE AND CABINET MAKING

a) Coniferous

<i>Abies pindrow</i> Royle <i>Abies spectabilis</i> Spach. (Syn. <i>Abies webbiana</i> Lindl.)	fir	FIR	morinda (Hin), pand, rai, tosh (HP), partal (Pun)	X	450 (335-690)	28 (21-43)	Low	d	Low	55
<i>Cedrus deodara</i> Loudon										
<i>Cupressus torulosa</i> Don	cypress	CYP	devidiar, leuri (Hin), saro (HP), surai (Kumaon)	Y	545 (465-705)	34 (29-44)	High	c	Low	75
<i>Picea smithiana</i> Boiss. (Syn. <i>Picea morinda</i> Link.)	spruce	SPR	partal, rai (Pun)	X	515 (430-610)	32 (27-38)	High	e	Low	75
<i>Pinus roxburghii</i> Sargent (Syn. <i>Pinus longifolia</i> Roxb.)	chir	CHR	chir (Hin), chil (Pun)	X	480 (290-655)	30 (18-41)	Low	d	Low	60
					575 (430-755)	36 (27-47)	Low	b	Low	65

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE --- Contd

BOTANICAL NAME (1)	STANDARD TRADE NAME (2)	ABBRE- VIATED SYMBOL (3)	LOCAL NAMES (4)	AVAIL- ABILITY (see 4.1) (5)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3) (8)	TREAT- ABILITY (see 4.4) (9)	REFRAC- TORINESS TO AIR SEASONING (see 4.5) (10)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6) (11)
					kg/m ³ (6)	lb/ft ³ (7)				
<i>Pinus wallichiana</i> A. B. Jacks. (Syn. <i>Pinus excelsa</i> Wall.)	kail	KAL	kail (Hin)	X	515 (400-690)	32 (25-43)	Low	c	Low	55
b) Broad Leaved (Non-coniferous)										
<i>Acer</i> sp.	maple	MAP	kanjula (Garhwal), kainju (Jaunsar), kulu (Ku- maon), kenzal, mandar (Pun)	†Y	575 (415-815)	36 (26-51)	Low	—	Moderate	75
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Hin)	X	675 (395-735)	42 (37-46)	Low	a	Moderate	95
<i>Aesculus indica</i> Colebr.	horse-chest- nut	HCH	bankhor (Hin), han (Kash), pangar (Ku- maon), gun, khanor (Pun)	†X	515 (—)	32 (—)	—	—	Moderate	—
<i>Albizzia lebbek</i> Benth.	kokko	KOK	siris (Hin), sarin, shrin (Pun)	Y	640 (480-755)	40 (30-47)	High	c	Moderate	95
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kala siris (Hin), kurmuru (Pun)	Y	735 (595-1 010)	46 (37-63)	High	c	Moderate	140
<i>Albizzia procera</i> Benth.	safed-siris	SSI	safed siris (Hin)	Y	640 (495-835)	40 (31-52)	Moderate	c	Moderate	95
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	90
<i>Betula</i> sp.	birch	BIR	bhojpatra, bhuj (Hin), sheori (HP), burza (Kash)	†Y	625 (—)	39 (—)	—	—	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	tun (Hin)	X	515 (385-610)	32 (24-38)	Low	c	Moderate	65
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin), tahli (Pun)	X	785 (625-930)	49 (39-58)	Moderate	c	Moderate	105
<i>Fraxinus</i> sp.	ash	ASH	hum (Kash), sum (Pun)	Z	720 (575-770)	45 (36-48)	Low	—	Moderate	75
<i>Gmelina arborea</i> Linn.	gamari	GAM	gamari, gamhar, kham- har (Hin), gumhar, kumhar (Pun)	Y	495 (415-610)	32 (26-38)	High	—	Moderate	75
<i>Grewia tiliaefolia</i> Vahl.	dhaman	DHA	phalsa (Pun)	Y	785 (610-880)	49 (38-55)	Moderate	d	Moderate	140
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	kanju, papri (Hin), kumkar, rajain (Pun)	X	595 (480-655)	37 (30-41)	Low	b	Moderate	80
<i>Juglans</i> sp.	walnut	WAL	akhor, akhrot, khor (Hin)	†X	575 (415-800)	36 (26-50)	Low	—	Moderate	75

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)				
(1)	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)				
<i>Lagerstrœmia parviflora</i> Roxb.	lendi	LEN	asidh, dhauri, sida (Hin)	Z	755 (705-800)	47 (44-50)	Low	c	High	95				
‡ <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amb (Pun)	X	690 (610-800)	43 (38-50)	Low	a	Low	90				
<i>Mitragnya parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam, phaldu (Hin)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	85				
<i>Morus</i> sp.	mulberry	MUL	shahtut (Hin & Pun), tut (Pun)	Z	675 (530-835)	42 (33-52)	Low	—	Moderate	85				
<i>Quercus floribunda</i> Wall. (Syn. <i>Quercus dilatata</i> Lindl.) <i>Quercus glauca</i> Thunb.	Indian oaks	IOA	{ mohru, moru, tilonj (Hin) phariant (Hin), bami (Pun) ban, banj, bhanj (Hin) rianj (Hin) kharsu (Hin) }	†X	865 (690-960)	54 (43-60)	Moderate	—	High	110				
<i>Quercus incana</i> Roxb. <i>Quercus lanuginosa</i> Don <i>Quercus semecarpifolia</i> Smith														
<i>Stereospermum personatum</i> (Hassk.) Chatt. (Syn. <i>Stereospermum chelonoides</i> DC.)					padri	PAD	padal, paral (Hin)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	95
<i>Stereospermum suaveolens</i> DC. <i>Terminalia tomentosa</i> Wight et Arn.					laurel	LAU	asna, sain (Hin), aisan (Pun)	X	850 (610-960)	53 (38-60)	Moderate	b	High	110

3. LIGHT PACKING CASES

a) Coniferous

<i>Abies pindrow</i> Royle <i>Abies spectabilis</i> Spach. (Syn. <i>Abies webbiana</i> Lindl.)	fir	FIR	morinda (Hin), pand, rai, tosh (HP), partal (Pun)	X	450 (335-690)	28 (21-43)	Low	d	Low	75
<i>Cedrus deodara</i> Loudon										
<i>Cupressus torulosa</i> Don	deodar	DEO	deodar (Hin), kelo, kelon (HP), diar (Pun)	X	545 (465-705)	34 (29-44)	High	c	Low	80
	cypress	CYP	devidiar, leuri (Hin), saro (HP), surai (Kumaon)	Y	515 (430-610)	32 (27-38)	High	e	Low	80
<i>Picea smithiana</i> Boiss. (Syn. <i>Picea morinda</i> Link)	spruce	SPR	partal, rai (Pun)	X	480 (290-655)	30 (18-41)	Low	d	Low	75
<i>Pinus roxburghii</i> Sargent (Syn. <i>Pinus longifolia</i> Roxb.)	chir	CHR	chir (Hin), chil' (Pun)	X	575 (430-755)	36 (27-47)	Low	b	Low	80
<i>Pinus wallichiana</i> A. B. Jacks. (Syn. <i>Pinus excelsa</i> Wall.)	kail	KAL	kail (Hin)	X	515 (400-690)	32 (25-43)	Low	c	Low	70

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TICNESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
(1)	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)
b) Broad Leaved (Non-coniferous)										
<i>Alnus nepalensis</i> Don	alder	ALD	{ utis (Hin), kosh (HP), sharol, shaur (Pun) piak (HP), kunis (Sirmur) chitiyan, satni, satwin (Hin)	†X	370	23	—	—	Low	70
<i>Alnus nitida</i> Endl.					(305-450)	(19-28)	—	—	—	
‡ <i>Alstonia scholaris</i> R. Br.					415	26	Low	—	Low	70
<i>Boswellia serrata</i> Roxb.	salai	SAA	salai (Hin), shala (Pun)	Y	(350-465)	(22-29)	Low	c	Low	85
<i>Ficus</i> sp.	figs	FIG	gular, pakar (Pun)	Z	575	36	—	—	Low	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	gamari, gamhar, kham- har (Hin), gumhar, kumhar (Pun)	Y	(495-800)	(31-50)	—	—	Low	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	kanju, papri (Hin), kum- kar, rajain (Pun)	X	465	29	—	—	Low	—
‡ <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	baurang (Hin), bathura (Pun)	Z	(—)	(—)	High	—	Moderate	85
<i>Kydia calycina</i> Roxb.	pula	PUL	pola, pula (Hin)	Z	515	32	—	—	Moderate	85
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	jhingan, moyen (Hin), kembali (Pun)	Z	(415-610)	(26-38)	Low	b	Moderate	95
‡ <i>Mangifera indica</i> Linn.	mango	MAN	aim (Hin), amb (Pun)	X	595	37	Low	c	Low	75
<i>Melia azedarach</i> Linn.	Persian lilac	PLI	bakain, darekh (Hin)	Z	480	30	Low	c	Low	75
<i>Populus</i> sp.	poplar	POP	chalun (HP), bahan, pha- lash (Pun), chalan (Sirmur)	Z	(400-545)	(25-34)	—	—	Low	—
‡ <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	semal (Hin), simal (Pun)	X	385	24	Low	e	Moderate	75
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	gutel (Hin), gumhar (HP)	Y	(—)	(—)	Low	c	Moderate	75
4. HEAVY PACKING CASES (for packing machinery and similar stores)										
a) Coniferous										
<i>Cedrus deodara</i> Loudon	deodar	DEO	deodar (Hin), kelo, kelon (HP), diar (Pun)	X	690	43	Low	a	Low	110
					(610-800)	(38-50)	Low	—	Moderate	100
					595	37	Low	—	Moderate	100
					(465-850)	(29-53)	—	—	Low	75
					450	28	—	—	Low	75
					(385-610)	(24-38)	—	—	Low	75
					385	24	Low	a	Low	70
					(255-530)	(16-33)	Low	a	Low	70
					450	28	Low	—	Low	—
					(—)	(—)	Low	—	Low	—

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE—Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
b) Broad Leaved (Non-coniferous)										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Hin)	X	675 (595-735)	42 (37-46)	Low	a	Moderate	105
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	95
<i>Cedrela toona</i> Roxb.	toon	TOO	tuñ (Hin)	X	515 (385-610)	32 (24-38)	Low	c	Moderate	80
<i>Garuga pinnata</i> Roxb.	garuga	GAU	ghoghar, kaikar, kara- pat (Hin)	Z	610 (465-690)	38 (29-43)	Low	c	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	gamari, gamhar, kham- har (Hin), gumhar, kumhar (Pun)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Lagerstrœmia parviflora</i> Roxb.	lendi	LEN	asidh, dhauri, sida (Hin)	Z	755 (705-800)	47 (44-50)	Low	c	High	110
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amb (Pun)	X	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Melia azedarach</i> Linn.	Persian lil- ac	PLI	bakain, darekh (Hin)	Z	595 (465-850)	37 (29-53)	Low	—	Moderate	100
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kalm	KAI	kalam, phaldu (Hin)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	105
<i>Pterospermum acerifolium</i> Willd. <i>Stereospermum personatum</i> (Hassk.) Chatt. (Syn. <i>Stereospermum chelonoi- des</i> DC.)	hathipaila	HAT	kanak-champa, mayeng (Hin), later (HP)	Z	595 (400-720)	37 (25-45)	Low	c	Moderate	105
<i>Stereospermum suaveolens</i> DC.	padri	PAD	padal, paral (Hin)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	120
<i>Syzygium cumini</i> Skeels (Syn. <i>Eugenia jambolana</i> Lamk.)	jaman	JAM	jamun (Hin)	X	785 (705-815)	49 (44-51)	Moderate	c	High	110
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	bahera (Hin), bhaira (Pun)	X	815 (675-895)	51 (42-56)	Low	b	Moderate	—

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
5. AGRICULTURAL IMPLEMENTS AND TOOL HANDLES										
a) Coniferous										
Nil										
b) Broad Leaved (Non-coniferous)										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Hin), kicar (Pun)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	135
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin)	X	1 010 (880-1 170)	63 (55-73)	High	—	High	130
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bakli, dhaura (Hin), chhal (HP), dhao (Pun)	X	895 (785-995)	56 (49-62)	Low	e	High	120
<i>Anogeissus pendula</i> Edgew.	kardahi	KAH	dhao, kardahi, kathdhai (Hin)	X	945 (815-1 090)	59 (51-68)	Low	—	High	130
<i>Celtis australis</i> Linn.	celtis	CEL	kharak, kharak chena, kharik (Hin), brimji (Kash), kharoh (Pun)	†Z	655 (—)	41 (—)	—	—	Low	—
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin), tahli (Pun)	X	785 (625-930)	49 (39-58)	Moderate	c	Moderate	105
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	abnoos (Hin)	Y	835 (655-1 105)	52 (41-69)	Low	—	Moderate	90
<i>Fraxinus</i> sp.	ash	ASH	hum (Kash), sum (Pun)	†Z	720 (575-770)	45 (36-48)	Low	—	Moderate	110
<i>Grewia</i> sp.	dhaman	DHA	phalsa (Pun)	Y	770 (610-880)	48 (38-55)	Moderate	d	Moderate	125
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	asidh, dhauri, sida (Hin)	Z	755 (705-800)	47 (44-50)	Low	e	High	100
<i>Olea</i> sp.	olive	OLI	kau (Jaunsar), kao, khwan, ko, kohu, kow (Pun)	Z	1 055 (—)	66 (—)	—	—	Moderate	—
<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	panan, sandan, tinnas, tinsa (Hin), sannan (Pun)	Y	850 (800-915)	53 (50-57)	High	—	Moderate	95
<i>Parrotiopsis jacquemontiana</i> (Deene) Rehd. (Syn. <i>Parrotia jacquemontiana</i> Deene)	parrotia	PAR	kilar, pasir, po, pohu (Pun)	Z	865 (—)	54 (—)	—	—	Moderate	115
<i>Robinia pseudoacacia</i> Linn.	black locust	BLO	—	Z	850 (—)	53 (—)	—	—	Moderate	—

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
6. TURNERY ARTICLES										
a) Coniferous										
Nil										
b) Broad Leaved (Non-coniferous)										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Hin), kikar (Pun)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	—
<i>Acer</i> sp.	maple	MAP	kanjula (Garhwal), kainju (Jaunsar), kilu, kulu (Kumaon), kenzal, man- dar (Pun)	†Y	575 (415-815)	36 (26-51)	Low	—	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Hin)	X	675 (595-735)	42 (37-46)	Low	a	Moderate	—
<i>Aesculus indica</i> Colebr.	horse-chest- nut	HCH	bankhor (Hin), han (Kash), pangar (Kum- aon), gun, khanor (Pun)	†X	515 (—)	32 (—)	—	—	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Betula</i> sp.	birch	BIR	bhojpatra, bhuj (Hin), sheori (HP), burza (Kash)	†Y	625 (—)	39 (—)	—	—	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	tun (Hin)	X	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin), tahli (Pun)	X	785 (625-930)	49 (39-58)	Moderate	e	Moderate	—
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	abnoos (Hin)	Y	835 (655-1 105)	52 (41-69)	Low	—	Moderate	—
<i>Ficus</i> sp.	figs	FIG	gular, pakar (Pun)	Z	465 (—)	29 (—)	—	—	Low	—
<i>Fraxinus</i> sp.	ash	ASH	hum (Kash), sum (Pun)	†Z	720 (575-770)	45 (36-48)	Low	—	Moderate	—
<i>Gardenia latifolia</i> Aiton	gardenia	GAR	papra (Hin)	Z	755 (705-835)	47 (44-52)	—	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	gamari, gamhar, khamhar (Hin), gumhar, kumhar (Pun)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	kanju, papri (Hin), kum- kar, rajain (Pun)	X	595 (480-655)	37 (30-41)	Low	b	Moderate	—
<i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	baurang (Hin), bathura (Pun)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE --- Contd

BOTANICAL NAME (1)	STANDARD TRADE NAME (2)	ABBRE- VIATED SYMBOL (3)	LOCAL NAMES (4)	AVAIL- ABILITY (see 4.1) (5)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3) (6)	TREAT- ABILITY (see 4.4) (9)	REFRAC- TORINESS TO AIR SEASONING (see 4.5) (10)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6) (11)
					kg/m ³ (6)	lb/ft ³ (7)				
<i>Juglans</i> sp.	walnut	WAL	akhor, akhrot, khor (Hin)	†X	575 (415-800)	36 (26-50)	Low	—	Moderate	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	jhingan, moyen (Hin), kembal (Pun)	Z	575 (495-675)	36 (31-42)	Low	c	Moderate	—
<i>Melia azedarach</i> Linn.	Persian lil- ac	PLI	bakain, darekh (Hin)	Z	595 (465-850)	37 (29-53)	Low	—	Moderate	—
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam, phaldu (Hin)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	—
<i>Olea</i> sp.	olive	OLI	kau (Jaunsar), kao, khwan, ko, kohu, kow (Pun)	Z	1 055 (—)	66 (—)	—	—	Moderate	—
<i>Parrotiopsis jacquemontiana</i> (Deene) Rehd. (Syn. <i>Parrotia jacquemontiana</i> (Deene))	parrotia	PAR	kilar, pasir, po, pohu (Pun)	Z	865 (—)	54 (—)	—	—	Moderate	—
<i>Pterospermum acerifolium</i> Willd.	hathipaila	HAT	kanak-champa, mayeng (Hin), later (HP)	Z	595 (400-720)	37 (25-45)	Low	c	Moderate	—
<i>Wrightia tomentosa</i> Roem. et Sch.	dudhi	DUD	dudhi, indrajau (Hin)	Z	560 (—)	35 (—)	—	—	Low	—
7. VENEERS AND PLYWOOD										
a) Coniferous										
Nil										
b) Broad Leaved (Non-coniferous)										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Hin)	X	675 (595-735)	42 (37-46)	Low	a	Moderate	—
<i>Albizzia lebbek</i> Benth.	kokko	KOK	siris (Hin), sarin, shrin (Pun)	Y	640 (480-755)	40 (30-47)	High	c	Moderate	—
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kala siris (Hin), kurmur (Pun)	Y	735 (595-1 010)	46 (37-63)	High	c	Moderate	—
<i>Albizzia procera</i> Benth.	safed-siris	SSI	safed siris (Hin)	Y	640 (495-835)	40 (31-52)	Moderate	c	Moderate	—
<i>Alnus nitida</i> Endl.	alder	ALD	piak (HP), kunis (Hin & Sirmur)	Y	370 (305-450)	23 (19-28)	—	—	Low	—
‡ <i>Alstonia scholaris</i> R. Br.	chatian	CHT	chitiyan, satni, satwin (Hin)	Z	415 (350-465)	26 (22-29)	Low	—	Low	—

TABLE I CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, NORTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	tun (Hin)	X	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin), tahli (Pun)	X	785 (625-930)	49 (39-58)	Moderate	c	Moderate	—
<i>Garuga pinnata</i> Roxb.	garuga	GAU	ghoghar, kaikar, khara- pat (Hin)	Z	610 (465-690)	38 (29-43)	Low	c	Moderate	—
<i>Grevillea robusta</i> A. Cunn.	silver oak	SOA	—	Z	640 (—)	40 (—)	—	—	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	kanju, papri (Hin), kumhar, rajain (Pun)	X	595 (480-655)	37 (30-41)	Low	b	Moderate	—
<i>Juglans</i> sp.	walnut	WAL	akhor, akhrot, khor (Hin)	X	575 (415-800)	36 (26-50)	Low	—	Moderate	—
<i>Kydia calycina</i> Roxb.	pula	PUL	pola, pula (Hin)	Z	385 (—)	24 (—)	—	—	Low	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woder</i> Roxb.)	jhingan	JHI	jhingan, moyen (Hin), kembal (Pun)	Z	575 (495-675)	36 (31-42)	Low	c	Moderate	—
‡ <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amb (Pun)	X	690 (610-800)	43 (38-50)	Low	a	Low	—
<i>Populus</i> sp.	poplar	POP	chalun (HP), bahan, phalash (Fun), chalan (Sirmur)	Z	450 (385-610)	28 (24-38)	—	—	Low	—
<i>Pterospermum acerifolium</i> Willd.	bathipaila	HAT	kanak-champa, mayeng (Hin), later (HP)	Z	595 (400-720)	37 (25-45)	Low	c	Moderate	—
‡ <i>Salvadora malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	semal (Hin), simal (Pun)	X	385 (255-530)	24 (16-33)	Low	a	Low	—
<i>Syzygium cumini</i> Skeels (Syn. <i>Eugenia jambolana</i> Lamk.)	jaman	JAM	jamun (Hin)	X	785 (705-815)	49 (44-51)	Moderate	c	High	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asna, sain (Hin), aisan (Pun)	X	850 (610-960)	53 (38-60)	Moderate	b	High	—

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE

(Clause 4)

NOTE — The following signs against the class of availability indicate that the particular species is mostly common only in the given area:

*Assam

@Andamans

+Orissa

An obelisk (†) against the class of availability of a species indicates that the timber grows in hilly areas, and on account of the difficulty and high cost of extraction, it is not fully exploited at present.

Mark (†) against a species indicates matchwood.

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
I. CONSTRUCTIONAL PURPOSES										
a) Coniferous										
18 <i>Abies densa</i> Griff. <i>Pinus insularis</i> Endl. (Syn. <i>Pinus khasya</i> Royle)	fir khasi pice	FIR KPI	gobre salla (Nep), diengse, dingsa (Asm), saral (Ben), uchal (Manip)	X Z	— 515 (—)	— 32 (—)	— Low	—	Low Moderate	—
b) Broad Leaved (Non-coniferous)										
<i>Acacia arabica</i> Willd.	babul	EAB	babla (Ben)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	105
<i>Acacia catechu</i> Willd.	khair	KHA	khaira (Asm), (Hin), khaira (Oriya)	X	1010 (880-1170)	63 (55-73)	High	—	High	120
<i>Acacia leucophloea</i> Willd.	hiwar	HIW	hiwar, nimdar (Hin), gohira, gwaria, johira (Oriya)	Z	785 (690-880)	49 (43-55)	—	—	High	75
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	mandane (Nep)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	100
<i>Aglaia</i> sp.	aglaia	AGL	latekh, momailatekh (Asm)	*Z	850 (610-960)	53 (38-60)	—	—	High	105
<i>Albizia lebbek</i> Benth.	kokko	KOK	hirih (Asm), sirish (Ben), sirish (Hin & Oriya)	@X	640 (480-755)	40 (30-47)	High	c	Moderate	90
<i>Albizia odoratissima</i> Benth.	kala-siris	KSI	hihand, joti-koroi (Asm), koroi (Ben), kiachalom (Kol)	Y	735 (595-1010)	46 (37-63)	High	c	Moderate	120
<i>Albizia procera</i> Benth.	safed-siris	SSI	sit (And), koroi (Asm & Ben), tenthra (Kol), dhala sirish (Oriya)	Y	640 (495-835)	40 (31-52)	Moderate	c	Moderate	85
<i>Altingia excelsa</i> Noronha	jutili	JUT	jutili (Asm)	*Z	800 (655-960)	50 (41-60)	Moderate	c	High	105

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Anogeissus acuminata</i> Wall.	yon	YON	garahessel (Kol), phansi (Oriya)	+Y	850 (755-930)	53 (47-58)	Moderate	c	High	105
<i>Anogeissus latifolia</i> Wall.	axlewood(bakli)	AXL	bakli, dhaura (Hin), hessel (Kol), banjhi (Nep), dhaw (Oriya)	X	930 (785-1105)	58 (49-69)	Low	e	High	95
<i>Artocarpus chaplasha</i> Roxb.	chaplash	CHP	taungpeine (And), cham, sam (Asm), chapalish (Ben), latore (Nep)	X	515 (320-675)	32 (20-42)	Moderate	d	Moderate	80
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kanthal (Hin), rukkathar (Nep), panas (Oriya)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	75
<i>Avicennia officinalis</i> Linn.	baen	BAE	bani, dudhi-baen (Ben)	Y	785 (—)	49 (—)	—	—	High	—
<i>Bischofia javanica</i> Blume	uriam	URI	ye padauk (And), kainjal (Ben & Nep)	Y	755 (595-865)	47 (37-54)	Low	e	High	75
<i>Bridelia retusa</i> Spreng.	kasi	KAS	kuhir (Asm), kaka (Kol), gayo (Nep), kosi (Oriya)	X	595 (515-675)	37 (32-42)	Moderate	e	Moderate	75
<i>Careya arborea</i> Roxb.	kumbi	KUM	kumbhi (Asm & Ben), kambhi (Hin)	X	785 (560-915)	49 (35-57)	High	—	High	80
<i>Cassia fistula</i> Linn.	amaltas	AMT	sanaru (Asm), bandar-lathi (Ben), amaltas (Hin), hari (Kol), sonalu (Nep), sonari (Oriya)	X	865 (735-1025)	54 (46-64)	Moderate	—	High	110
<i>Castanopsis</i> sp.	chestnut	CHE	hingori (Asm)	Y	640 (545-770)	40 (34-48)	Moderate	b	Moderate	80
<i>Casuarina equisetifolia</i> Linn.	casuarina	CAS	jhau (Ben), jhaun (Oriya)	Y	850 (785-930)	53 (49-58)	Low	c	High	90
<i>Cedrela toona</i> Roxb.	toon	TOO	jativoma (Asm), tun (Hin), katangai (Kol), tuni (Nep), mahalimbo (Oriya)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	60
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	yin-mabin (And), boga-poma (Asm)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	80
<i>Cinnamomum</i> sp.	cinnamon	CIN	gondsoroi (Asm), gundroi, tejpat (Ben), malagiri (Nep)	Z	655 (545-770)	41 (34-48)	Low	—	Moderate	90
<i>Cleistanthus collinus</i> (Roxb.) Benth. & HK.	karada	KAA	garar, garari (Hin), parasu (Kol), karada (Oriya)	X	850 (—)	53 (—)	Moderate	—	High	—
<i>Cynometra polyandra</i> Roxb.	ping	PIC	ping (Asm)	*Z	915 (835-960)	57 (52-60)	Low	b	High	115
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	satisal (Ben), kiri (Kol), sissu (Oriya)	Z	835 (640-945)	52 (40-59)	High	—	Moderate	90

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE -- Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin)	Y	770 (690-850)	48 (43-53)	Moderate	c	Moderate	85
<i>Dillenia</i> sp.	dillenia	DIL	zinbyun (And), otenga (Asm), chalta, tartari (Ben), panchphal (Nep), rai (Oriya)	X	625 (560-705)	39 (35-44)	Low	---	Moderate	80
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	kend (Ben), abnoos, kendu (Hin), tiril (Kol)	Z	835 (555-1105)	52 (41-69)	Low	---	Moderate	75
<i>Dipterocarpus macrocarpus</i> Ves- que	hollong	HON	hollong (Asm)	*X	735 (640-880)	46 (40-55)	Low	a	Moderate	110
<i>Dipterocarpus</i> sp.	gurjan	GUR	garjan (Asm)	X	785 (705-960)	49 (44-60)	Low	b	Moderate	105
<i>Gmelina arborea</i> Linn.	gamari	GAM	yemane (And), gomari (Asm), gumhar (Ben), kasmar (Kol), khamari (Nep), gambhari (Oriya)	Y	515 (415-610)	52 (26-38)	High	---	Moderate	55
<i>Grewia</i> sp.	dhaman	DHA	gonyer (Kol)	Y	770 (610-880)	48 (38-55)	Moderate	d	Moderate	110
<i>Lagerstræmia hypoleuca</i> Kurz	pyinma	PYI	pyinma (And)	@X	610 (480-705)	38 (30-44)	Moderate	---	Moderate	80
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	mechi (Asm), sidha (Ben & Oriya), gara sekre (Kol), buri-dhamero (Nep)	X	755 (705-800)	47 (44-50)	Low	e	High	95
<i>Lagerstræmia speciosa</i> Pers. (Syn. <i>Lagerstræmia flosregina</i> Retz.)	jarul	JAR	ajhar (Asm), gara sekre (Kol), panipatuli (Oriya)	Y	625 (495-785)	39 (31-49)	Moderate	c	Moderate	80
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	nabe (And), ruhimala (Asm), kuhimala (Lower Asm), jial, jiga (Ben), doka (Kol), jeol (Nep), moi (Oriya)	X	575 (495-675)	36 (31-42)	Low	c	Moderate	50
<i>Madhuca indica</i> Gmel. [Syn. <i>Bassia latifolia</i> Roxb.; <i>Madhuca latifolia</i> (Roxb.) Macbride]	mahua	MAU	mohwa (Hin), madkam (Kol), mahula (Oriya)	X	915 (755-1040)	57 (47-65)	High	e	High	75
<i>Mesua ferrea</i> Linn.	mesua	MES	gangane (And), nahor (Asm), nageswar, nag- kesar (Ben), negeswar (Oriya)	X	995 (900-1075)	62 (56-67)	High	e	High	150

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE—Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam, guri (Hin), hamsabeti (Kol), mitu- kunja (Oriya)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	75
<i>Ougeinia oojensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	bandhan, pandhan (Hin), ruta (Kol)	Y	850 (800-915)	53 (50-57)	High	—	Moderate	80
<i>Protium serratum</i> (Wall. ex Colebr.) Engl. (Syn. <i>Bursera serrata</i> Colebr.)	murteaga	MUR	gutgotya (Ben), kaka, kandor (Kol), nimbu- ramoi (Oriya)	X	785 (—)	49 (—)	Moderate	e	Moderate	—
<i>Pterocarpus dalbergioides</i> Roxb.	padank	PAA	padank (And)	@X	720 (515-900)	45 (32-56)	High	c	Moderate	105
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	piasal (Ben & Oriya), hid (Kol)	X	800 (720-880)	50 (45-55)	High	e	Moderate	100
<i>Quercus</i> sp.	Indian oaks	IOA	buk (Ben), phalant (Nep)	X	865 (690-960)	54 (43-60)	Moderate	—	High	110
<i>Schima wallichii</i> Choisy	chilauni	CHL	gogra, makrisal (Asm)	X	655 (575-800)	41 (36-50)	Low	d	Moderate	85
<i>Shorea assamica</i> Dyer	makai	MAK	makai (Asm)	*Y	575 (480-690)	36 (30-43)	Low	c	Moderate	75
<i>Shorea robusta</i> Gaertn. f.	sal	SAL	sakhua (Hin), sarjam (Kol), raigala, sargi (Oriya)	X	880 (675-1 060)	55 (42-66)	High	c	High	120
<i>Soymida febrifuga</i> A. Juss.	rohini	ROH	rohina (Ben), rohan (Hin), rohini (Kol), rohini, sohan, suan (Oriya)	Z	1 155 (915-1 265)	72 (57-79)	High	—	High	130
<i>Stereospermum</i> sp.	padri	PAD	paroli (Asm), husi (Kol), parari (Nep), patuli (Oriya)	Z	720 (560-975)	45 (35-61)	Low	—	Moderate	85
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jamuk (Asm), jam (Ben), kuda (Kol), jamu (Oriya)	Y	815 (705-930)	51 (44-58)	Moderate	e	High	95
<i>Tamarindus indica</i> Linn.	imli	IML	jojo (Kol), tenthuli (Oriya)	Z	915 (—)	57 (—)	—	—	Moderate	65
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagoon (Asm), shegun (Ben), sagwan (Hin), saguan (Oriya)	Y	640 (515-785)	40 (32-49)	High	e	Moderate	100
<i>Terminalia arjuna</i> W & A.	arjun	ARJ	kowa (Kol), arjuna (Oriya)	X	815 (640-995)	51 (40-62)	Moderate	b	Moderate	70

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Terminalia bialata</i> Steudel	white chug- lam (silver grey-wood)	WCH (SGR)	safed chuglam (And)	@X	705 (495-815)	44 (31-51)	Low	c	Moderate	95
<i>Terminalia manii</i> King	black chug- lam	BCH	kala chuglam (And)	@X	800 (610-930)	50 (38-58)	Low	a	Moderate	100
<i>Terminalia myriocarpa</i> Heurck et Muell. Arg.	hollock	HOL	panisaj (Nep)	X	610 (450-705)	38 (28-44)	Low	a	Moderate	70
<i>Terminalia procera</i> Roxb.	white bom- bwe	WBO	badam (And)	@X	610 (430-755)	38 (27-47)	Low	b	Moderate	80
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), hatana (Kol), pucca saj (Nep), sahaja (Oriya)	X	880 (610-995)	55 (38-62)	Moderate	b	High	100
<i>Xylia xylocarpa</i> Taub.	irul	IRU	kongra, tangan (Oriya)	Y	850 (755-1 010)	53 (47-63)	High	c	High	105
2. FURNITURE AND CABINET MAKING										
a) Coniferous										
<i>Abies densa</i> Griff.	fir	FIR	gobre salla (Nep)	X	—	—	—	—	Low	—
<i>Pinus insularis</i> Endl. (Syn. <i>Pinus khasya</i> Royle)	khasi pine	KPI	diengse, dingsa (Asm), saral (Ben), uchal (Manip)	Z	515	32	Low	—	Low	—
<i>Tsuga dumosa</i> (D. Don) Eichler (Syn. <i>Tsuga brunoniana</i> Carr.)	bem lock	HEM	tengre salla (Nep)	Y	400 (335-575)	25 (21-36)	—	—	—	—
b) Broad Leaved (Non-coniferous)										
<i>Acer</i> sp.	maple	MAP	kapasi (Ben), kapashi (Nep)	↑Z	575 (415-815)	36 (26-51)	Low	—	Moderate	75
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	mandane (Nep)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	100
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	ta. aksopa (Asm), rangkat (Ben), karam (Hin), kumbha (Kol), kuruma (Oriya)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	95
<i>Albizzia lebbek</i> Benth.	kokko	KOK	hirih (Asm), sirish (Ben), sirish (Hin & Oriya)	X	640 (480-755)	40 (30-47)	High	c	Moderate	95
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	hihand, joti-koroi (Asm), koroi (Ben), kiachalom (Kol)	Y	735 (595-1 010)	46 (37-63)	High	c	Moderate	140

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Albizia procera</i> Benth.	safed-siris	SSI	sit (And), koro (Asm & Ben), tenthra (Kol), dluala sirish (Oriya)	Y	640 (495-835)	46 (31-52)	Moderate	c	Moderate	95
<i>Amoora wallichii</i> King	atnari	AMA	lalchini (And), amur (Asm), lali (Ben & Nep)	Y	625 (495-735)	39 (31-46)	Moderate	—	Moderate	75
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohikuka</i> Wight et Arn.)	pitraj	PIT	boga amari (Asm), lochuni, loshune (Ben)	Y	690 (575-770)	43 (36-48)	High	—	Moderate	95
<i>Artocarpus chaplasha</i> Roxb.	chaplash	CHP	taungpeine (And), cham, sam (Asm), chapalish (Ben), latore (Nep)	X	515 (320-675)	32 (20-42)	Moderate	d	Moderate	90
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kanthal (Ben), rukkathar (Nep), panas (Oriya)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	90
<i>Artocarpus lakoocha</i> Roxb.	lakooch	LAK	lakooch (And), dahua (Ben), dao (Kol)	Z	640 (—)	40 (—)	High	—	Moderate	—
<i>Betula</i> sp.	birch	BIR	dieng-ling (Khasi), saur (Nep)	+Z	625 (—)	39 (—)	—	—	Moderate	—
<i>Bridelia retusa</i> Spreng	kasi	KAS	kuhir (Asm), kaka (Kol), gayo (Nep) kosi (Oriya)	X	595 (515-675)	37 (32-42)	Moderate	e	Moderate	85
<i>Bucklandia populnea</i> R. Br.	pipli	PIP	pipli (Ben)	+Z	595 (515-675)	37 (32-42)	—	—	Low	90
<i>Canarium sikkimense</i> King (Roxb.)	dhup	DHU	gokuldhup (Ben), gogul-dup (Nep)	Y	655 (—)	41 (—)	—	—	Low	—
<i>Castanopsis</i> sp.	chestnut	CHE	hingori (Asm)	Z	640 (545-770)	40 (34-48)	Moderate	b	Moderate	75
<i>Cedrela toona</i> Roxb.	toon	TOO	jatipoma (Asm), tun (Hin), katangai (Kol), tuni (Nep), mahalimbe (Oriya)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	65
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	bherul (Hin), bheru (Oriya)	Z	960 (835-1105)	60 (52-69)	Low	—	High	130
<i>Chukrasia tabularis</i> A. Dr. Juss.	chickrassy	CHI	yin-mabin (And), boga-poma (Asm)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	90
<i>Cinnamomum</i> sp.	cinnamon	CIN	gondoroi (Asm), gun-droi, tejpat (Ben), mala-giri (Nep)	Za	655 (545-770)	41 (34-48)	Low	—	Moderate	80
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	satisal (Ben), kiri (Kol), sissu (Oriya)	Z	835 (640-945)	52 (40-59)	High	—	Moderate	115
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin)	Y	770 (690-850)	48 (43-53)	Moderate	e	Moderate	105

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	kend (Ben), abnoos, kendu (Hin), tiril (Kol)	Z	835 (655-1105)	52 (41-69)	Low	—	Moderate	95
<i>Dysoxylum binectariferum</i> (Roxb.) HK.f. ex Bedd.	devdam	DEV	bandardima (Asm), losu- ni (Ben)	Y	720 (—)	45 (—)	—	—	Moderate	—
<i>Fagara budrunga</i> Roxb. (Syn. <i>Zanthoxylum budrunga</i> DC.)	mullilam	MUI	bajarnali (Asm), badrang, timur (Ben), morai (Oriya)	Y	735 (690-815)	46 (43-51)	—	—	Moderate	—
<i>Smelina arborea</i> Linn.	gamari	GAM	ycinanc (And), gomari (Asm), gumhar (Ben), kasmar (Kol), khamari (Nep), gambhari (Oriya)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	75
<i>Grewia</i> sp.	dhaman	DHA	gonyer (Kol)	Y	770 (610-880)	48 (38-55)	Moderate	d	Moderate	100
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	anjan (Ben), chilbil, dhauranjo (Oriya)	Y	595 (480-655)	37 (30-41)	Low	b	Moderate	80
<i>Juglans</i> sp.	walnut	WAL	akhor, akrot, khor (Hin)	Z	575 (415-800)	36 (26-50)	Low	—	Moderate	75
<i>Lagerstræmia hypoleuca</i> Kurz	pyinma	PYI	pyinma (And)	@X	610 (480-705)	38 (30-44)	Moderate	—	Moderate	80
<i>Lagerstræmia speciosa</i> Pers. (Syn. <i>Lagerstræmia flosreginae</i> Retz.)	jarul	JAR	ajhar (Asm), gara sekre (Kol), panipatuli (Oriya)	Y	625 (495-785)	39 (31-49)	Moderate	c	Moderate	90
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Asm & Hin), uli (Kol), amba (Oriya)	X	690 (610-800)	43 (38-50)	Low	a	Low	90
<i>Michelia baillonii</i> Finet et Gagnep (Syn. <i>Talauma phellocarpa</i> King)	talauma	TAL	tita-sopa (Asm), tilsundi (Ben)	Z	575 (—)	36 (—)	—	—	Moderate	—
<i>Michelia champaca</i> Linn.	champ	CHM	tita-sopa (Asm), cham- paca, champak (Ben), champa (Hin & Oriya)	Z	495 (400-595)	31 (25-37)	Low	c	Moderate	70
<i>Michelia</i> sp.	champ	CHM	sopa (Asm), champa (Ben & Oriya)	X	495 (370-675)	31 (23-42)	Low	—	Moderate	70
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	guri, kalam (Hin), ham- sabeti (Kol), mitukunia (Oriya)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	85
<i>Morus laevigata</i> Wali.	bola	BOL	bhola (Asm), kimbu (Ben & Nep)	Z	655 (—)	41 (—)	—	—	Moderate	85
<i>Phoebe</i> sp.	bonsum	BON	angari (Nep)	Z	530 (370-655)	33 (23-41)	Low	c	Moderate	75
<i>Polyalthia</i> sp.	debdaru	DEB	kutharia (Oriya)	Z	640 (450-850)	40 (23-53)	Low	—	Moderate	90

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Protium serratum</i> (Wall. ex Colebr.) Engl. (Syn. <i>Bursera serrata</i> Colebr.)	murtenga	MUR	gutgotya (Ben), kaka, kandeor (Kol), nimbura-moi (Oriya)	X	785 (—)	49 (—)	Moderate	c	Moderate	—
<i>Pterocarpus dalbergioides</i> Roxb.	padauk	PAA	padauk (And)	@X	720 (515-900)	45 (32-56)	High	c	Moderate	100
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	piasal (Ben & Oriya), hid (Kol)	X	800 (720-880)	50 (45-55)	High	e	Moderate	100
<i>Quercus</i> sp.	Indian oaks	IOA	buk (Ben), phalant (Nep)	X	865 (690-960)	54 (43-60)	Moderate	—	High	110
<i>Sonneratia apetala</i> Ham.	keora	KEO	keowra (Ben)	Y	625 (480-720)	39 (30-45)	—	—	Moderate	80
<i>Soymda febrifuga</i> A. Juss.	rohini	ROH	rohina (Ben), rohan (Hin), rohini (Kol), rohani, sohan, suan (Oriya)	Z	1 155 (915-1 265)	72 (57-79)	High	—	High	—
<i>Swietenia</i> sp.	mahogany	MAO	—	**Z	675 (—)	42 (—)	—	—	Moderate	—
<i>Tectona grandis</i> Linn.f.	teak	TEA	sagoon (Asm), shegun (Ben), sagwan (Hin), saguan (Oriya)	Y	640 (515-785)	40 (32-49)	High	c	Moderate	100
<i>Terminalia bialata</i> Steudel	white chug-lam (silver grey-wood)	WCH (SGR)	safed chuglam (And)	@X	705 (495-815)	44 (31-51)	Low	c	Moderate	85
<i>Terminalia myriocarpa</i> Heurck et Muell. Arg.	hollock	HOL	panisaj (Nep)	X	610 (450-705)	38 (28-44)	Low	a	Moderate	85
<i>Terminalia procera</i> Roxb.	white bom-bwe	WBO	badam (And)	@X	610 (430-755)	38 (27-47)	Low	b	Moderate	85
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), hatana (Kol), puccasaj (Nep), sahaja (Oriya)	X	880 (610-995)	55 (38-62)	Moderate	b	High	110

3. LIGHT PACKING CASES

a) Coniferous

<i>Abies densa</i> Griff.	fir	FIR	gobre salla (Nep)	X	—	—	—	—	Low	—
<i>Cryptomeria japonica</i> D. Don	suji (dhupi)	SUJ	dhupi (Ben)	X	270 (210-370)	17 (13-23)	—	c	Low	65
<i>Pinus insularis</i> Endl. (Syn. <i>Pinus khasya</i> Royle)	khasi pine	KPI	diengse, dingsa (Asm), saral (Ben), uchul (Manip)	Z	515 (—)	32 (—)	Low	—	Low	—

**From plantations and road side avenues only.

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Tsuga dumosa</i> (D. Don) Eichler (Syn. <i>Tsuga brunoniana</i> Carr.)	hem lock	HEM	tengre salla (Nep)	Y	400 (335-575)	25 (21-36)	—	—	Low	75
b) Broad Leaved (Non-coniferous)										
<i>Ailanthus</i> sp.	gokul	GOK	borpat (Asm), ghoranim, mahanim (Hin), mahalo (Oriya)	Z	415 (335-480)	26 (21-30)	Low	—	Low	70
<i>Alnus nepalensis</i> Don	alder	ALD	utis (Nep)	+Z	370 (305-450)	23 (19-28)	—	—	Low	70
† <i>Alstonia scholaris</i> R. Br.	chatian	CHT	satiana (Asm), kungmung (Kol), chhatian (Nep & Oriya)	Z	415 (350-465)	26 (22-29)	Low	—	Low	70
† <i>Anthocephalus cadamba</i> Miq.	kadam	KAD	sanko (Kol), kadamba (Oriya)	X	495 (385-640)	31 (24-40)	Low	a	Low	85
<i>Borwellia serrata</i> Roxb.	salai	SAA	salga (Hin)	X	575 (495-800)	36 (31-50)	Low	c	Low	85
<i>Canarium euphyllum</i> Kurz	white dhup	WDH	dhup (And)	@X	430 (305-610)	27 (19-38)	Low	—	Low	75
<i>Canarium sikkimense</i> King (Roxb.)	dhup	DHU	gokul dhup (Ben), gogul dhup (Nep)	Y	655 (—)	41 (—)	—	—	Low	—
<i>Duabanga sonneratioides</i> Ham.	lampati	LAP	myauk-myo (And), kho- kan (Asm)	X	515 (385-595)	32 (24-37)	Low	c	Low	80
† <i>Endospermum</i> sp.	bakota	BAK	bakota (And)	@Y	430 (—)	27 (—)	Low	—	Low	—
† <i>Evodia</i> sp.	kambli	KAM	khanakpa (Ben)	X	415 (—)	26 (—)	—	—	Moderate	—
<i>Excavaria agallocha</i> Linn.	geon	GEO	gengwa (Ben), guan (Oriya)	Y	415 (—)	26 (—)	—	—	Low	—
<i>Ficus</i> sp.	figs	FIG	bar, dimaru (Asm), dimiri, jari (Oriya)	Z	465 (—)	29 (—)	—	—	Low	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	yemane (And), gomari (Asm), gumhar (Ben), kasmar (Kol), khamari (Nep), gambhari (Oriya)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	anjan (Ben), chilbil, dhauranjo (Oriya)	Y	595 (480-655)	37 (30-41)	Low	b	Moderate	95
† <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bharkundi (Asm), bau- rang (Bihar), bhurkal (Hin), latikaram (Nep), kansa (Oriya)	Z	480 (400-545)	30 (25-34)	Low	c	Low	75
<i>Kydia calycina</i> Roxb.	pala	PUL	pichola (Asm), bitagoinr (Kol), kubinde (Nep), banakapasias (Oriya)	X	385 (—)	24 (—)	—	—	Low	—

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	nabe (And), kuhimala, ruhimala (Asm), jial, jiga (Ben), doka (Kol), jeol (Nep), moi (Oriya)	X	575 (495-675)	36 (31-42)	Low	c	Moderate	75
<i>Machilus gamblei</i> King	machilus	MAC	kawala (Nep)	Z	515 (—)	32 (—)	Low	c	Moderate	—
‡ <i>Mangifera indica</i> Linn.	mango	MAN	am (Asm & Hin), uli (Kol), amba (Oriya)	X	690 (610-800)	43 (38-50)	Low	a	Low	110
‡ <i>Pterocymbium tinctorium</i> Merr. (Syn. <i>Sterculia campanulata</i> Wall.)	papita	PAP	papita (And)	@X	335 (255-450)	21 (16-28)	Low	—	Low	70
<i>Pterygota alata</i> R. Br. (Syn. <i>Sterculia alata</i> Roxb.)	narikel	NAR	letkok (And), pahari (Asm), tula (Ben)	Y	560 (450-640)	35 (28-40)	—	—	Low	90
‡ <i>Salmalia insignis</i> Schott & Endl.	didu	DID	didu (And), simal (Hin)	X	370 (175-545)	23 (11-34)	Low	a	Low	—
(Syn. <i>Bombax insignis</i> Wall.) ‡ <i>Salmalia malabarica</i> Schott & Endl.	didu	DID	edel (Kol), simuli (Oriya)	X	385 (255-530)	24 (16-33)	Low	a	Low	70
(Syn. <i>Bombax malabaricum</i> DC.) <i>Sapium baccatum</i> Roxb.	seleng	SEL	lelun (And), billa (Asm), ankrataruwa (Nep)	Y	495 (—)	31 (—)	—	—	Low	—
‡ <i>Sideroxylon longepetiolatum</i> King et Prain	lambapatti	LAM	lambapatti (And)	@Y	545 (—)	34 (—)	Low	a	Low	—
‡ <i>Spondias pinnata</i> Kurz (Syn. <i>Spondias mangifera</i> Willd.)	amra	AMR	ambara (And), amra (Ben), bamrao (Hin), ambo (Kol), ambada (Oriya)	Z	450 (—)	28 (—)	Low	—	Low	—
<i>Sterculia urens</i> Roxb.	karar	KRA	odla (Asm), karari (Hin), teley (Kol), girdhini, kodaro (Oriya)	Z	545 (—)	34 (—)	—	—	Low	—
‡ <i>Sterculia villosa</i> Roxb.	udal	UDA	odal (Asm & Nep), sisi (Kol), kodale (Oriya)	X	255 (—)	16 (—)	—	—	Low	—
<i>Tetrameles nudiflora</i> R. Br.	maina	MAI	thitpok (And), bhelu, tula (Asm), moina (Ben)	X	320 (—)	20 (—)	Low	a	Low	—
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	belkol (Asm), pitali (Ben), gara-loa (Kol), pani- gambhari (Oriya)	Z	450 (—)	28 (—)	Low	—	Low	—
4. HEAVY PACKING CASES (for packing machinery and similar stores)										
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	mandane (Nep)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	110

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Adina cordifolia</i> Hook.f.	haldu	HAL	taraksopa (Asm), rangkat (Ben), karam (Hin), kumbha (Kol), kuruma (Oriya)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	105
<i>Albizzia chinensis</i> (Osbeck) Merr. (Syn. <i>Albizzia stipulata</i> Boivin)	siris	SIR	benmeza (And), kothia- koaroi (Asm), tarli (Ben), japud (Kol), ghoda-lanjia (Oriya)	Z	400 (—)	25 (—)	Low	c	Moderate	—
<i>Amoora wallichii</i> King	amari	AMA	lalchini (And), amur (Asm), lali (Ben & Nep)	Y	625 (495-735)	39 (31-46)	Moderate	—	Moderate	95
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohituka</i> Wight et Arn.)	pitraj	PIT	boga amari (Asm), lochuni, loshune (Ben)	Y	690 (575-770)	43 (36-48)	High	—	Moderate	105
<i>Artocarpus chaplasha</i> Roxb.	chaplash	CHP	taungpeine (And), cham sam, (Asm), chapalish (Ben), latore (Nep)	X	515 (320-675)	32 (20-42)	Moderate	d	Moderate	90
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kanthal (Hin), rukkathar (Nep), panas (Oriya)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	95
<i>Avicennia officinalis</i> Linn.	baen	BAE	bani, dudhi baen (Ben)	Y	785 (—)	49 (—)	—	—	High	—
<i>Bauhinia</i> sp.	kanchan	KAC	deva-kanchan, kanchan, rakta-kanchan (Ben), keolari (Hin), tanki (Nep)	Y	675 (—)	42 (—)	—	—	Moderate	—
<i>Bischofia javanica</i> Blume	uriam	URI	ye padauk (And), kainjal (Ben & Nep)	Y	755 (595-865)	47 (37-54)	Low	c	High	95
<i>Bucklandia populnea</i> R. Br.	pipli	PIP	pipli (Ben)	+Z	595 (515-675)	37 (32-42)	—	—	Low	100
<i>Careya arborea</i> Roxb.	kumbi	KUM	kumbhi (Asm & Ben), kambi (Hin)	X	785 (560-915)	49 (35-57)	High	—	High	115
<i>Cedrela toona</i> Roxb.	toon	TOO	jatipoma (Asm), tun (Hin), katangai (Kol), tuni (Nep), mahalimbo (Oriya)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	80
<i>Dillenia</i> sp.	dillenia	DIL	zinbyun (And), otenga (Asm), chalta, tartari (Ben), panchphal (Nep), rai (Oriya)	X	625 (560-705)	39 (35-44)	Low	—	Moderate	90
<i>Dipterocarpus macrocarpus</i> Ves- que	hollong	HON	hollong (Asm)	*X	735 (640-880)	46 (40-55)	Low	a	Moderate	105
<i>Dipterocarpus</i> sp.	gurjan	GUR	garjan (Asm)	X	785 (705-960)	49 (44-60)	Low	b	Moderate	105

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dysoxylum binectariferum</i> (Roxb.) HK. f. ex Bedd.	devdam	DEV	bandardima (Asm), losuni (Ben)	Y	720	45	—	—	Moderate	—
<i>Garuga pinnata</i> Roxb.	garuga	GAU	kharpāt (Ben), armu (Kol), kathkusum, raj-moi (Oriya)	Y	610 (465-690)	38 (29-43)	Low	c	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	yemane (And), gomari (Asm), gumhar (Ben), kasmar (Kol), khamari (Nep), gambhari (Oriya)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Lagerstrœmia parviflora</i> Roxb.	lendi	LEN	mechi (Asm), sidha (Ben & Oriya), garasekre (Kol), buri-dhamero (Nep)	X	755 (705-800)	47 (44-50)	Low	c	High	110
<i>Lagerstrœmia speciosa</i> Pers. (Syn. <i>Lagerstrœmia flosreginae</i> Reiz.)	jarul	JAR	ajhar (Asm), garasekre (Kol), panipatuli (Oriya)	Y	625 (495-785)	39 (31-49)	Moderate	c	Moderate	110
<i>Machilus gamblei</i> King	machilus	MAC	kawala (Nep)	Z	515 (—)	32 (—)	Low	c	Moderate	—
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Asm & Hin), uli (Kol), amba (Oriya)	X	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Michelia baillonii</i> Finet et Gagnep (Syn. <i>Talauma phellocarpa</i> King)	talauma	TAL	tita-sopa (Asm), tilsundi (Ben)	Z	575 (—)	36 (—)	—	—	Moderate	—
<i>Michelia</i> sp.	champ	CHM	sopa (Asm), champa (Ben & Oriya)	X	495 (370-675)	31 (23-42)	Low	—	Moderate	80
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	guri, kalam (Hin), ham-sabeti (Kol), mitukunia (Oriya)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	105
<i>Morus levigata</i> Wall.	bola	BOL	bhola (Asm), kimbu (Ben & Nep)	Z	655 (—)	41 (—)	—	—	Moderate	105
<i>Phœbe</i> sp.	bonsum	BON	angari (Nep)	Z	530 (370-655)	33 (23-41)	Low	c	Moderate	85
<i>Protium serratum</i> (Wall. ex Colebr.) Engl. (Syn. <i>Bursera serrata</i> Colebr.)	murtenga	MUR	gutgotya (Ben), kaka, kandeor (Kol), nimbura-moi (Oriya)	X	785 (—)	49 (—)	Moderate	c	Moderate	—
<i>Pterospermum acerifolium</i> Willd.	hathipaila	HAT	hathipoila (Asm), bailo, muckhukenda (Oriya)	Y	595 (400-720)	37 (25-45)	Low	c	Moderate	105
<i>Shorea assamica</i> Dyer	makai	MAK	makai (Asm)	*Y	575 (480-690)	35 (30-43)	Low	c	Moderate	90
<i>Sonneratia apetala</i> Ham.	keora	KEO	keowra (Ben)	Y	625 (480-720)	39 (30-45)	—	—	Moderate	95

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Stereospermum</i> sp.	padri	PAD	paroli (Asm), husi (Kol), parari (Nep), patuli (Oriya)	Z	720 (560-975)	45 (35-61)	Low	—	Moderate	120
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jamuk (Asm), jam (Ben), kuda (Kol), jamu (Oriya)	Y	815 (705-930)	51 (44-58)	Moderate	c	High	110
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagoon (Asm), shegun (Ben), sagwan (Hin), saguan (Oriya)	Y	640 (515-785)	40 (32-49)	High	c	Moderate	100
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	lbhomora (Asm), lupung (Kol), bahada (Oriya)	X	815 (675-895)	51 (42-56)	Low	b	Moderate	—
<i>Terminalia myriocarpa</i> Heurck et Muell. Arg.	hollock	HOL	panisaj (Nep)	X	610 (450-705)	38 (28-44)	Low	a	Moderate	95
<i>Terminalia procera</i> Roxb.	white bomb- we	WBO	badam (And)	@X	610 (430-755)	38 (27-47)	Low	b	Moderate	100
5. AGRICULTURAL IMPLEMENTS AND TOOL HANDLES										
<i>Acacia arabica</i> Willd.	babul	BAB	babla (Ben)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	135
<i>Acacia catechu</i> Willd.	khair	KHA	khaira (Asm), khair (Hin), khaira (Oriya)	X	1 010 (880-1 170)	63 (55-73)	High	—	High	130
<i>Acacia leucophlœa</i> Willd.	hiwar	HIW	hiwar, nimbar (Hin), gohira, gwaria, johira (Oriya)	Z	785 (690-880)	49 (43-55)	—	—	High	—
<i>Anogeissus acuminata</i> Wall.	yon	YON	garahessel (Kol), phansi (Oriya)	+Y	850 (755-930)	53 (47-58)	Moderate	c	High	125
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bakli, dhaura (Hin), hessel (Kol), banjhi (Nep), dhaw (Oriya)	X	930 (785-1 105)	58 (49-69)	Low	c	High	120
<i>Barringtonia acutangula</i> Gaertn.	—	—	hijjal (Ben), hinjal (Hin), dundi (Kol), hinjala (Oriya)	Z	575 (—)	36 (—)	—	—	Moderate	—
<i>Bauhinia</i> sp.	kanchan	KAC	deva-kanchan, kanchan, rakta-kanchan (Ben), keolari (Hin), tanki (Nep)	Y	675 (—)	42 (—)	—	—	Moderate	—
<i>Bridelia retusa</i> Spreng.	kasi	KAS	kuhir (Asm), kaka (Kol), gayo (Nep), kosi (Oriya)	X	595 (515-675)	37 (32-42)	Moderate	c	Moderate	—
<i>Careya arborea</i> Roxb.	kumbi	KUM	kumbhi (Asm & Ben), kambi (Hin)	X	785 (560-915)	49 (35-57)	High	—	High	95
<i>Cynometra polyantra</i> Roxb.	ping	PIG	ping (Asm)	*Z	915 (835-960)	57 (52-60)	Low	b	High	130
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	satisal (Ben), kiri (Kol), sissu (Oriya)	Z	835 (640-945)	52 (40-59)	High	—	Moderate	110

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin)	Y	770 (690-850)	48 (43-53)	Moderate	c	Moderate	105
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	kend (Ben), abnoos, kendu (Hin), tiril (Kol)	Z	835 (655-1 105)	52 (41-69)	Low	—	Moderate	90
<i>Grewia</i> sp.	dhaman	DHA	gonyer (Kol)	Y	770 (610-880)	48 (38-55)	Moderate	d	Moderate	125
<i>Lagerstramia parviflora</i> Roxb.	lendi	LEN	mechi (Asm), sidha (Ben & Oriya), garasekre (Kol), buri-dhamero (Nep)	X	755 (705-800)	47 (44-50)	Low	c	High	100
<i>Ougeinia oojenensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	bandhan, pandhan (Hin), ruta (Kol)	Y	850 (800-915)	53 (50-57)	High	—	Moderate	95
<i>Schleichera oleosa</i> Oken (Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	baru (Kol), kusuma (Oriya)	Y	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	155
<i>Soymda febrifuga</i> A. Juss.	rohini	ROH	rohina (Ben), rohan (Hin), rohini (Kol), rohini, sohan, suan (Oriya)	Z	1 155 (915-1 265)	72 (57-79)	High	—	High	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), hatana (Kol), pucca saj (Nep), sahaja (Oriya)	X	880 (610-995)	55 (38-62)	Moderate	b	High	110
<i>Xylia xylocarpa</i> Taub.	irul	IRU	kongra, tangan (Oriya)	Y	850 (755-1 010)	53 (47-63)	High	c	High	110
6. TURNERY ARTICLES AND TOYS										
<i>Acacia arabica</i> Willd.	babul	BAB	babla (Ben)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	—
<i>Acer</i> sp.	maple	MAP	kapasi (Ben), kapashi (Nep)	+Z	575 (415-815)	36 (26-51)	Low	—	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	taraksopa (Asm), rangkat (Ben), karam (Hin), kumbha (Kol), kuruma (Oriya)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kanthal (Hin), rukkathar (Nep), panas (Oriya)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Betula</i> sp.	birch	BIR	dieng-ling (Khasi), saur (Nep)	+Z	625 (—)	39 (—)	—	—	Moderate	—

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USLS, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Castanopsis</i> sp.	chestnut	CHE	hingori (Asm)	Z	640 (545-770)	40 (34-48)	Moderate	b	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	jē ipoma (Asm), tun (Hin), katangai (Kol), tuni (Nep), mahalimbo (Oriya)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	yin-mabin (And), boga- poma (Asm)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	—
<i>Cinnamomum</i> sp.	cinnamon	CIN	gondsoroi (Asm), gundroi, tejpat (Ben), malagiri (Nep)	Z	655 (545-770)	41 (34-48)	Low	—	Moderate	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	satsial (Ben), kiri (Kol), sisso (Oriya)	Z	835 (640-945)	52 (40-59)	High	—	Moderate	—
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin)	Y	770 (690-850)	48 (43-53)	Moderate	c	Moderate	—
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	kend (Ben), abnoos, kendu (Hin), tiril (Kol)	Z	835 (655-1105)	52 (41-69)	Low	—	Moderate	—
<i>Excoecaria agallocha</i> Linn.	geon	GEO	gengwa (Ben), guan (Oriya)	Y	415 (—)	26 (—)	—	—	Low	—
<i>Fagara budrunga</i> Roxb. (Syn. <i>Zanthoxylum budrunga</i> DC.)	mullilam	MUI	bajarnali (Asm), badrang, timur (Ben), morai (Oriya)	Y	735 (690-815)	46 (43-51)	—	—	Moderate	—
<i>Ficus</i> sp.	figs	FIG	bar, dimaru (Asm), dimiri, jari (Oriya)	Z	465 (—)	29 (—)	—	—	Low	—
<i>Gardenia</i> sp.	gardenia	GAR	damkarudu, kataranja (Oriya)	Z	755 (690-835)	47 (43-52)	—	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	yemane (And), gomari (Asm), gumhar (Ben), kasmar (Kol), khama- ri (Nep), gambhari (Oriya)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	—
<i>Holarrhena antidysenterica</i> Wall.	kurchi	KUR	kurdis (Hin), tuar (Kol), korei (Oriya)	Y	530 (450-610)	33 (28-38)	—	—	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	anjan (Ben), chilbil, dhauranjo (Oriya)	Y	595 (480-655)	37 (30-41)	Low	b	Moderate	—
† <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bharkundi (Asm), bau- rang (Bihar), bhurkal (Hin), latikaram (Nep), kansa (Oriya)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingam	JHI	nabe (And), kuhimala, ruhimala (Asm), jial, jiga (Ben), doka (Kol), jeol (Nep), moi (Oriya)	X	575 (495-675)	36 (31-42)	Low	e	Moderate	—

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Machilus gamblei</i> King	machilus	MAC	kawala (Nep)	Z	515	32	Low	e	Moderate	—
<i>Michelia baillonii</i> Finet et Gagnep (Syn. <i>Talauma phellocarpa</i> King)	talauma	TAL	tita-sopa (Asm), tilsundi (Ben)	Z	575 (—)	36 (—)	—	—	Moderate	—
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	guri, kalam (Hin), hamsa- beti (Kol), mitukunia (Oriya)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	—
<i>Morus laevigata</i> Wall.	bola	BOL	bhola (Asm), kimbu (Ben & Nep)	Z	655 (—)	41 (—)	—	—	Moderate	—
<i>Polyalthia</i> sp.	debdaru	DEB	kutharia (Oriya)	Z	640 (450-850)	40 (28-53)	Low	—	Moderate	—
<i>Pterospermum acerifolium</i> Willd	hathipaila	HAT	hathipaila (Asm), bailo, muckhukenda (Oriya)	Y	595 (400-720)	47 (25-45)	Low	c	Moderate	—
† <i>Sideroxylon longepetiolatum</i> King et Prain	lambapatti	LAM	lambapatti (And)	@Y	545 (—)	34 (—)	Low	a	Low	—
<i>Swietenia</i> sp.	mahogany	MAO	—	**Z	675 (—)	42 (—)	—	—	Moderate	—
<i>Wrightia</i> sp.	dudhi	DUD	pitakurbei, sanchi (Oriya)	Z	575 (—)	36 (—)	—	—	Low	—
7. VENEERS AND PLYWOOD										
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	mandane (Nep)	Z	690 (400-800)	43 (29-50)	Low	c	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	tarakopa (Asm), rangkat (Ben), karam (Hin), kumbha (Kol), kuruma (Oriya)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	—
<i>Ailanthus</i> sp.	goku	GOK	borpat (Asm), ghoranira, mahanim (Hin), mahalo (Oriya)	Z	415 (335-480)	26 (21-30)	Low	—	Low	—
<i>Albizzia lebeck</i> Benth.	kokko	KOK	hirih (Asm), sirish (Ben), sirish (Hin & Oriya)	X	540 (480-755)	40 (30-47)	High	c	Moderate	—
<i>Albizzia odoratissima</i> Benth.	kala-siris	KS	hihand, joti-koroi (Asm), koroi (Ben), kiachalom (Kol)	Y	735 (595-1010)	46 (37-63)	High	c	Moderate	—
<i>Albizzia procera</i> Benth.	safed-siris	SSI	sit (And), koroi (Asm & Ben), tenthra (Kol), dhala sirish (Oriya)	Y	640 (495-835)	40 (31-52)	Moderate	c	Moderate	—

**From plantations and road side avenues only.

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK A: 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Alnus nepalensis</i> Don	alder	ALD	utis (Nep)	+Z	370 (305-450)	23 (19-28)	—	—	Low	—
<i>Amoora wallichii</i> King	amari	AMA	lalchini (And), amur (Asm), lali (Ben & Nep)	Y	625 (495-735)	39 (31-46)	Moderate	—	Moderate	—
† <i>Anthocephalus cadamba</i> Miq.	kadam	KAD	sanko (Kol), kadamba (Oriya)	X	495 (385-640)	31 (24-40)	Low	a	Low	—
<i>Artocarpus chaplasha</i> Roxb.	chaplash	CHP	taungpeine (And), cham, sam (Asm), chapalish (Ben), latore (Nep)	X	515 (320-675)	32 (20-42)	Moderate	d	Moderate	—
<i>Boswellia serrata</i> Roxb.	salai	SAA	salga (Hin)	X	575 (495-800)	36 (31-50)	Low	c	Low	—
<i>Bucklandia populnea</i> R. Br.	pipli	PIP	pipli (Ben)	+Z	595 (515-675)	37 (32-42)	—	—	Low	—
<i>Canarium euphyllum</i> Kurz	white dhup	WDH	dhup (And)	@X	430 (305-610)	27 (19-38)	Low	—	Low	—
† <i>Cedrela toona</i> Roxb.	toon	TOO	jatipoma (Asm), tun (Hin), katangai (Kol), tuni (Nep), mahalimbo (Oriya)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	yin-mabin (And), boga- poma (Asm)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	—
<i>Dalbergia sissoo</i> Roxb.	sissoo	SIS	shisham (Hin)	Y	770 (690-850)	48 (43-53)	Moderate	e	Moderate	—
<i>Dillenia</i> sp.	dillenia	DIL	zinbyun (And), otenga (Asm), chalta, tartari (Ben), panchphal (Nep), rai (Oriya)	X	625 (560-705)	39 (35-44)	Low	—	Moderate	—
<i>Dipterocarpus macrocarpus</i> Vesque	hollong	HON	hollong (Asm)	*X	735 (640-880)	46 (40-55)	Low	a	Moderate	—
<i>Dipterocarpus</i> sp.	gurjan	GUR	garjan (Asm)	X	785 (705-960)	49 (44-60)	Low	b	Moderate	—
<i>Fagara budrunga</i> Roxb. (Syn. <i>Zanthoxylum budrunga</i> DC.)	mullilam	MUI	bajarnali (Asm), badrang, timur (Ben), morai (Oriya)	Y	735 (690-815)	46 (43-51)	—	—	Moderate	—
<i>Garuga pinnata</i> Roxb.	garuga	GAU	kharpat (Ben), armu (Kol), kathkusum, rajmoi (Oriya)	Y	610 (465-690)	38 (29-43)	Low	c	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	anjan (Ben), chilbil, dhauranjo (Oriya)	Y	595 (480-655)	37 (30-41)	Low	b	Moderate	—
† <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bharkundi (Asm), bau- rang (Bihar), bhurkal (Hin), latikaram (Nep), kansa (Oriya)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—

TABLE II CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, EAST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	nabe (And), kuhimala, ruhimala (Asm), jial, jiga (Ben), doka (Kol), jeol (Nep), moi (Oriya)	X	575 (495-675)	36 (31-42)	Low	e	Moderate	—
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Asm & Hin), uli (Kol), amba (Oriya)	X	690 (610-800)	43 (38-50)	Low	a	Low	—
<i>Michelia</i> sp.	champ	CHM	sopa (Asm), champa (Ben & Oriya)	X	495 (370-675)	31 (23-42)	Low	—	Moderate	—
<i>Phoebe</i> sp.	bonsum	BON	angari (Nep)	Z	530 (370-655)	33 (23-41)	Low	c	Moderate	—
<i>Pterygota alata</i> R. Br. (Syn. <i>Sterculia alata</i> Roxb.)	narikel	NAR	letkok (And), pahari (Asm), tula (Ben)	Y	560 (450-640)	35 (28-40)	—	—	Low	—
‡ <i>Salmalia insignis</i> Schott & Endl. (Syn. <i>Bombax insigne</i> Wall.)	didu	DID	didu (And), simal (Hin)	@X	370 (175-545)	23 (11-34)	Low	a	Moderate	—
‡ <i>Salmalia</i> sp. (Syn. <i>Bombax</i> sp.)	didu	DID	simal (Ben & Hin)	X	370 (175-545)	23 (11-34)	Low	a	Moderate	—
<i>Schima wallichii</i> Choisy	chilauni	CHL	gogra, makrisal (Asm)	X	655 (575-800)	41 (36-50)	Low	d	Moderate	—
<i>Shorea assamica</i> Dyer	makai	MAK	makai (Asm)	*Y	575 (480-690)	36 (30-43)	Low	c	Moderate	—
<i>Syzygium cumini</i> Skeels (Syn. <i>Eugenia jambolana</i> Lamk.)	jaman	JAM	jamuk (Asm), jam (Ben), kuda (Kol)	Y	785 (705-815)	49 (44-51)	Moderate	c	High	—
<i>Terminalia bialata</i> Steudel	white chug- lam (silver grey-wood)	WCH (SGR)	safed chuglam (And)	@X	705 (495-815)	44 (31-51)	Low	c	Moderate	—
<i>Terminalia myriocarpa</i> Heurck et Muell. Arg.	hollock	HOL	panisaj (Nep)	X	610 (450-705)	38 (28-44)	Low	a	Moderate	—
<i>Terminalia procera</i> Roxb.	white bomb- we	WBC	badam (And)	@X	610 (430-755)	38 (27-47)	Low	b	Moderate	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), hatana (Kol), pucca saj (Nep), sahaja (Oriya)	X	880 (610-995)	55 (38-62)	Moderate	b	High	—
<i>Tetrameles nudiflora</i> R. Br.	maina	MAI	thitpok (And), bhelu, tula (Asm), moina (Ben)	X	320 (—)	20 (—)	Low	a	Low	—
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	belkol (Asm), pitali (Ben), gara-loa (Kol), panigambhari (Oriya)	Z	450 (—)	28 (—)	Low	—	Low	—

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE

(Clause 4)

NOTE — Mark (‡) against a species indicates matchwood.

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
1	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)
I. CONSTRUCTIONAL PURPOSES										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Mar)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	105
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin)	X	1 010 (880-1 170)	63 (55-73)	High	—	High	120
<i>Albizzia lebbek</i> Benth.	kokko	KOK	siris (Hin), chichola (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	90
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	srisi (Mar), chichwa (MP)	Z	735 (595-1 010)	46 (37-63)	High	e	Moderate	120
<i>Albizzia procera</i> Benth.	safed-siris	SSI	kinhai (Mar), gurer (MP)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	85
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bakli (Hin), dhaura (Mar & MP)	X	930 (785-1 105)	58 (49-69)	Low	e	High	95
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin), phanas (MP)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	75
<i>Cassia fistula</i> Linn.	amaltas	AMT	amaltas (Hin), bahawa (Mar)	Z	865 (735-1 025)	54 (46-64)	Moderate	—	High	110
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	ghiria (Bhopal), behra, bhirra (Mar & MP)	X	960 (835-1 105)	60 (52-69)	Low	—	High	110
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (MP)	Y	880 (800-945)	55 (50-59)	High	—	Moderate	90
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tendu, tumri (MP)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	75
<i>Gmelina arborea</i> Linn.	gamari	GAM	gumhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	55
<i>Grewia</i> sp.	dhaman	DHA	phalsa (MP)	Z	770 (610-880)	48 (38-55)	Moderate	d	Moderate	110
<i>Hardwickia binata</i> Roxb.	anjan	ANJ	anjan (Mar), eppa (Tel)	Y	850 (735-1 025)	53 (46-64)	High	e	High	70
<i>Lagerstrœmia parviflora</i> Roxb.	lendi	LEN	lendia senha (Mar), kalia- saja, lendia (MP)	X	755 (705-800)	47 (44-50)	Low	e	High	95
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	moyen (Mar), moyai, moven (MP)	X	575 (495-675)	36 (31-42)	Low	e	Moderate	50

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Madhuca indica</i> Gmel. [Syn. <i>Bassia latifolia</i> Roxb.; <i>Madhuca latifolia</i> (Roxb.) Macbride]	mahua	MAU	mahua (Mar), mohwa (MP)	X	910 (755-1 040)	57 (47-65)	High	e	High	75
<i>Manilkara</i> sp. (Syn. <i>Mimusops</i> sp.)	bullet-wood	BUL	khirni (MP)	Z	895 (785-995)	56 (49-62)	High	—	High	125
<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	tinsa, tiwas (MP)	Y	850 (800-915)	53 (50-57)	High	—	Moderate	80
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	bija (MP)	X	800 (720-880)	50 (45-55)	High	e	Moderate	100
<i>Schleichera oleosa</i> Oken. (Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	kusum (Mar)	Z	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	140
<i>Shorea robusta</i> Gaertn. f.	sal	SAL	sal (Hin)	X	815 (625-930)	51 (39-58)	High	e	High	120
<i>Stereospermum</i> sp.	padri	PAD	padar (MP)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	85
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jamun (MP)	Y	815 (705-930)	51 (44-58)	Moderate	e	High	95
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagwan (Hin), sagon (MP)	X	625 (495-755)	39 (31-47)	High	e	Moderate	100
<i>Terminalia arjuna</i> W & A.	arjun	ARJ	koha (Mar), kohu, kowa (MP)	X	815 (640-995)	51 (40-62)	Moderate	b	Moderate	70
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	bahera (Mar)	X	815 (675-895)	51 (42-56)	Low	b	Moderate	105
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), ain, sadar, saj (MP)	X	880 (610-995)	55 (38-62)	Moderate	b	High	100
<i>Xylia xylocarpa</i> Taub.	irul	IRU	suria (Mar), sauriya (MP)	Z	850 (755-1 010)	53 (47-63)	High	e	High	105
2. FURNITURE AND CABINET MAKING										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Mar), karam (MP)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	95
<i>Albizzia lebbek</i> Benth.	kokko	KOK	siris (Hin), chichola (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	95
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	srisi (Mar), chichwa (MP)	Z	735 (595-1 010)	46 (37-63)	High	e	Moderate	140
<i>Albizzia procera</i> Benth.	safed-siris	SSI	kinhai (Mar), gurer (MP)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	95

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE --- Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin), phanas (MP)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	90
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	behra, bhirra, ghiria (Mar & MP)	X	960 (835-1 105)	60 (52-69)	Low	—	High	130
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (MP)	Y	880 (800-945)	55 (50-59)	High	—	Moderate	115
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tendu, tumri (MP)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	gumhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	75
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	papara (Mar), chilwal, chirol, karanji (MP)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	80
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	lendia senha (Mar), kaliasaja, lendia (MP)	X	755 (705-800)	47 (44-50)	Low	c	High	95
‡ <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	90
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam (MP)	X	635 (595-720)	41 (37-45)	Low	b	Moderate	85
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	bija (MP)	X	800 (720-880)	50 (45-55)	High	c	Moderate	100
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagwan (Hin), sagon (MP)	X	625 (495-755)	39 (31-47)	High	e	Moderate	100
3. LIGHT PACKING CASES										
‡ <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	maharukh (Mar)	Z	415 (335-480)	26 (21-30)	—	—	Low	70
<i>Boswellia serrata</i> Roxb.	salai	SAA	salai (Mar), salga, salia (MP)	X	575 (495-800)	36 (31-50)	Low	c	Low	85
<i>Ficus</i> sp.	figs	FIG	gular (MP)	Z	465 (—)	29 (—)	—	—	Low	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	gumhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Holoptelea integrifolia</i> Planch.	kanju	KAJ	papara (Mar), chilwal, chirol, karanji (MP)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	95
‡ <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bhorsal (Mar), bhawar- mal, bhorsal, bhurker (MP)	Z	480 (400-545)	30 (25-34)	Low	c	Low	75
<i>Kydia calycina</i> Roxb.	pula	PUL	bhendi (Mar), barranga (MP)	Y	385 (—)	24 (—)	—	—	Low	—

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE—Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAG- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Ocina wodier</i> Roxb.)	jhingan	JHI	moyen (Mar), moyai, moyen (MP)	X	575 (495-675)	36 (31-42)	Low	e	Moderate	75
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	110
† <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	semal (Mar), semur (MP)	X	385 (255-530)	24 (16-33)	Low	a	Low	70
4. HEAVY PACKING CASES (for packing machinery and similar stores)										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Mar), karam (MP)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	105
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin), phanas (MP)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	95
<i>Garuga pinnata</i> Roxb.	garuga	GAU	kakad (Mar), ghoghar (MP)	X	610 (465-690)	38 (29-43)	Low	e	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	gunhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Lagerstramia parviflora</i> Roxb.	lendi	LEN	lendia senha (Mar), kalia- saja, lendia (MP)	X	755 (705-800)	47 (44-50)	Low	c	High	110
† <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jamaa	JAM	jamun (MP)	Y	815 (705-930)	51 (44-58)	Moderate	e	High	110
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagwan (Hin), sagon (MP)	X	625 (495-755)	39 (43-47)	High	e	Moderate	100
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	bahera (Mar)	X	815 (675-895)	51 (42-56)	Low	b	Moderate	—
5. AGRICULTURAL IMPLEMENTS AND TOOL HANDLES										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Mar)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	135
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin)	X	1010 (880-1170)	63 (55-73)	High	—	High	130
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bakli (Hin), dhaura (Mar & MP)	X	930 (785-1105)	58 (49-69)	Low	c	High	120
<i>Anogeissus pendula</i> Edgew.	kardahi	KAH	kardahi (MP)	Y	945 (815-1090)	59 (51-68)	Low	—	High	130

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABERE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dalbergia latifolia</i> Roxb.	rosewood (b l a c k- wood)	ROS	shisham (MP)	Y	880 (800-945)	55 (50-59)	High	—	Moderate	110
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tendu, tumri (MP)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	90
<i>Grewia tiliaefolia</i> Vahl.	dhaman	DHA	phalsa (MP)	Z	785 (610-880)	49 (38-55)	Moderate	d	Moderate	125
<i>Lagerstramia parviflora</i> Roxb.	lendi	LEN	lendia senha (Mar), kaliasaja, lendia (MP)	X	755 (705-800)	47 (44-50)	Low	c	High	100
<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	tinsa, tiwas (MP)	Y	850 (800-915)	53 (50-57)	High	—	Moderate	95
<i>Tamarindus indica</i> Linn.	imli	IML	imli (Mar)	Z	915 (—)	57 (—)	—	—	Moderate	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), ain, sadar, saj (MF)	X	880 (610-995)	55 (38-62)	Moderate	b	High	110
<i>Zizyphus mauritiana</i> Lamk. (Syn. <i>Zizyphus jujuba</i> Lamk.)	ber	BER	ber (Mar)	Z	705 (—)	44 (—)	—	—	Moderate	—
6. TURNERY ARTICLES AND TOYS										
<i>Acacia arabica</i> Willd.	babul	BAB	babul (Mar)	X	785 (720-850)	49 (45-53)	Low	b	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Mar), karam (MP)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	kathal (Hin), phanas (MP)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	behra, bhirra, ghiria (Mar & MP)	X	960 (835-1 105)	60 (52-69)	Low	—	High	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (b l a c k- wood)	ROS	shisham (MP)	Y	880 (800-945)	55 (50-59)	High	—	Moderate	—
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tendu, tumri (MP)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	—
<i>Gardenia</i> sp.	gardenia	GAR	dikamali, papri (MP)	Y	755 (690-835)	47 (43-52)	—	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	gumhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	papara (Mar), chilwal, chirol, karanji (MP)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	—

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRACTORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
‡ <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bhorsal (Mar), bhawar- mal, bhorsal, bhurker (MP)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—
<i>Lannea coromandelira</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woder</i> Roxb.)	jhingan	JHI	moyen (Mar), moyai, moyen (MP)	X	575 (495-675)	36 (31-42)	Low	c	Moderate	—
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam (MP)	X	655 (595-720)	41 (37-45)	Low	b	Moderate	—
<i>Schrebera swietenioides</i> Roxb.	mokha	MOK	mokha (Mar), ghanto (MP)	Z	815 (—)	51 (—)	—	—	Moderate	—
<i>Tamarindus indica</i> Linn.	imli	IML	imli (Mar)	Z	915 (—)	57 (—)	—	—	Moderate	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagwan (Hin), sagon (MP)	X	625 (495-755)	39 (31-47)	High	e	Moderate	—
<i>Wrightia</i> sp.	dudhi	DUD	dudhai (MP)	Y	575 (—)	36 (—)	—	—	Low	—
7. VENEERS AND PLYWOOD										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haldu (Mar), karam (MP)	X	690 (480-785)	43 (30-49)	Low	a	Moderate	—
‡ <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	maharukh (Mar)	Z	415 (335-480)	26 (21-30)	—	—	Low	—
<i>Albizzia lebbek</i> Benth.	kokko	KOK	siris (Hin), chichola (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	—
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	srisi (Mar), chichwa (MP)	Z	735 (595-1 010)	46 (37-63)	High	e	Moderate	—
<i>Albizzia procera</i> Benth.	safed-siris	SSI	kinhai (Mar), gurer (MP)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	—
<i>Boswellia serrata</i> Roxb.	salai	SAA	salai (Mar), salga, salia (MP)	X	575 (495-800)	36 (31-50)	Low	e	Low	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (black- wood)	ROS	shisham (MP)	Y	880 (800-945)	55 (50-59)	High	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	gumhar (Hin), siwan (MP)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	—

TABLE III CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, CENTRE ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOI- STURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	papara (Mar), chilwal, chirol, karanji (MP)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	—
‡ <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bhorsal (Mar), bhawar- mal, bhorsal, bhurker (MP)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	moyen (Mar), moyai, moyen (MP)	X	560 (495-675)	36 (31-42)	Low	c	Moderate	—
‡ <i>Mangifera indica</i> Linn.	mango	MAN	am (Hin), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	—
‡ <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	semal (Mar), semur (MP)	X	385 (255-530)	24 (16-33)	Low	a	Low	—
<i>Syzygium cumini</i> Skeels (Syn. <i>Eugenia jambolana</i> Lamk.)	jaman	JAM	jamun (MP)	X	785 (705-815)	49 (44-51)	Moderate	c	High	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	sagwan (Hin), sagon (MP)	X	625 (495-755)	39 (31-47)	High	c	Moderate	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	asan, asna, sain (Hin), ain, sadar, saj (MP)	X	880 (610-995)	55 (38-62)	Moderate	b	High	—

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE

(Clause 4)

NOTE — Mark (‡) against a species indicates matchwood.

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. CONSTRUCTIONAL PURPOSES										
<i>Acacia arabica</i> Willd.	babul	BAB	baval, bawal (Guj), fali, jali, mashwel (Kan),	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	105
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin), kath (Kan)	Y	1 010 (880-1 170)	63 (55-73)	High	—	High	120
<i>Acacia sundra</i> Willd.	lal-khair	LKH	lal-khair (Mar)	Z	1 120 (1 040-1 235)	70 (65-77)	—	—	High	150
<i>Albizzia lebeck</i> Benth.	kokko	KOK	sirsul (Kan), chichola, siras, siris (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	90
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kalio-siras (Guj), bil- kambi, godhunchi (Kan)	Z	735 (595-1 010)	46 (37-63)	High	e	Moderate	120
<i>Albizzia procera</i> Benth.	safed-siris	SSI	karangro (Guj), bellati (Kan), kilai, kinhai (Mar)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	85
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	dhardo, dhauro, dhavado, dhavdo (Guj & Mar), dindal (Kan)	Z	930 (785-1 105)	58 (49-69)	Low	e	High	95
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohituka</i> Wight et Arn.)	pitraj	PIT	rakta-rohida (Mar)	Y	690 (575-770)	43 (36-48)	High	—	Moderate	90
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	phanas (Guj & Mar), halasu, halsin (Kan)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	75
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu, hebbhulsina (Kan), pathphanas (Mar)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	90
<i>Bischofia javanica</i> Blume	uriam	URI	nilimara (Kan), bok (Mar)	Z	755 (595-865)	47 (37-54)	Low	e	High	75
<i>Calophyllum</i> sp.	poon	POO	surhonni (Kan)	Z	655 (480-815)	41 (30-51)	Moderate	e	Moderate	85
<i>Cassia fistula</i> Linn.	amaltas	AMT	garmalo, gurmala (Guj), kakke (Kan), bahaya, bhava (Mar)	Z	865 (735-1 025)	54 (46-64)	Moderate	—	High	110
<i>Casuarina equisetifolia</i> Linn.	casuarina	CAS	saru (Guj & Mar), cali- mara, galimara (Kan), suru (Mar)	Y	850 (785-930)	53 (49-58)	Low	c	High	90

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Cedrela toona</i> Roxb.	toon	TOO	biligandhagiri (Kan), devdari (Mar)	Z	515 (385-610)	32 (24-38)	Low	c	Moderate	60
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	mashwal (Kan), billu (Mar)	Z	960 (835-1 105)	60 (52-69)	Low	—	High	110
<i>Chukrasia tabularis</i> ADR. Juss.	chickrassy	CHI	lal-devdari (Mar)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	80
<i>Cinnamomum</i> sp.	cinnamon	CIN	risni (Kan), dalchini (Mar)	Z	655 (545-770)	41 (34-48)	Low	—	Moderate	90
<i>Dalbergia latifolia</i> Roxb.	rosewood (black- wood)	ROS	shisham (Guj & Mar), biti (Kan)	Y	770 (640-880)	48 (40-55)	High	—	Moderate	90
<i>Dillenia</i> sp.	dillenia	DIL	kanagola (Kan), karmal (Mar)	Y	625 (560-705)	39 (35-44)	Low	—	Moderate	80
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tamruj, timbervo, timru (Guj), balai (Kan), temburni (Mar)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	75
<i>Dipterocarpus indicus</i> Bedd.	gurjan	GUR	challane, kalpine (Kan)	Z	785 (705-900)	49 (44-56)	Moderate	b	Moderate	105
<i>Gmelina arborea</i> Linn.	gamari	GAM	shivani, shiwan (Guj & Mar), kulimara (Kan)	Z	515 (415-610)	32 (26-38)	High	—	Moderate	55
<i>Grewia</i> sp.	dhaman	DHA	dadsal, thadsal (Guj & Kan)	Y	785 (610-880)	49 (38-55)	Moderate	d	Moderate	110
<i>Hardwickia binata</i> Roxb.	anjan	ANJ	karachi (Kan)	Z	850 (735-1 025)	53 (46-64)	High	e	High	70
<i>Hopea parviflora</i> Bedd.	hopea	HOP	kiralobogi (Kan), kalhoni (Mar)	Z	945 (755-1 120)	59 (47-70)	High	e	High	120
<i>Lagerströmia lanceolata</i> Wall. (Syn. <i>Lagerströmia microcarpa</i> Wight)	benteak	BEN	nana (Guj & Mar), nandi (Kan)	Y	675 (610-815)	42 (36-51)	High	e	Moderate	95
<i>Lagerströmia parviflora</i> Roxb.	lendi	LEN	bondaro (Guj), chan- nangi (Kan)	Z	755 (705-800)	47 (44-50)	Low	e	High	95
<i>Lagerströmia speciosa</i> Pers. (Syn. <i>Lagerströmia flosregina</i> Retz.)	jarul	JAR	holedasal (Kan), bon- dara, taman (Mar)	Z	625 (495-785)	39 (31-49)	Moderate	e	Moderate	80
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	modhal, monia (Guj), gojjal (Kan), modal, moyee (Mar)	Y	575 (495-675)	36 (31-42)	Low	e	Moderate	50
<i>Madhuca</i> sp. (Syn. <i>Bassia</i> sp.)	mahua	MAU	mahuda (Guj), ippi (Kan), mohwa (Mar)	Z	915 (755-1 040)	57 (47-65)	High	e	High	75
<i>Manilkara</i> sp. (Syn. <i>Mimusops</i> sp.)	bullet-wood	BUL	borsali, rayan (Guj), mugali (Kan), ranjana, wovali (Mar)	Z	895 (785-995)	56 (49-62)	High	—	High	125

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE -- Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRACTORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Milusa tomentosa</i> (Roxb.) J. Sinclair (Syn. <i>Saccopetalum tomentosum</i> Hook. f. et Th.)	hoom	HOO	humb (Guj & Mar), woomb (Kan)	Z	735 (655-835)	46 (41-52)	Low	---	Moderate	95
<i>Ougeinia ojeinensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	telus (Dangs), tanach (Guj), karimuttal (Kan), tewas (Mar)	Z	850 (800-915)	53 (50-57)	High	---	Moderate	80
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	beo (Guj), honne (Kan), bibla (Mar)	Y	800 (720-880)	50 (45-55)	High	c	Moderate	100
<i>Schleichera oleosa</i> Oken. (Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	sagada, sagodi (Kan), hosimb, kusumb (Mar)	Z	1105 (1060-1185)	69 (66-74)	Low	a	High	140
<i>Stereospermum</i> sp.	padri	PAD	kandol (Guj), genasing, mukarti (Kan), kursing, pudoli (Mar)	Z	720 (560-975)	45 (35-61)	Low	---	Moderate	85
<i>Strychnos nux-vomica</i> Linn.	kuchla	KUC	kara (Mar)	Z	880 (—)	55 (—)	---	---	High	---
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jambu (Guj), nerlu (Kan), jambul (Mar)	Y	850 (705-1025)	53 (44-64)	Moderate	e	High	95
<i>Tectona grandis</i> Linn. f.	teak	TEA	sag (Guj & Mar), sagwan (Hin), tegu (Kan)	X	640 (515-785)	40 (32-49)	High	e	Moderate	100
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	baheda (Guj), tare, tari (Kan), vehela (Mar)	Y	815 (675-895)	51 (42-56)	Low	b	Moderate	105
<i>Terminalia paniculata</i> Roth	kindal	KIN	honal (Kan), kindal (Mar)	Y	770 (655-880)	48 (41-55)	Moderate	c	High	95
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	karimatti, matti (Kan), ain, sajad (Mar)	X	895 (770-995)	56 (48-62)	Moderate	b	High	100
<i>Vitex</i> sp.	milla	MIL	nagod (Guj), nerole (Kan)	Z	930 (655-1060)	58 (41-66)	High	---	High	115
<i>Xylia xylocarpa</i> Taub.	irul	IRU	jambe (Kan), jamba (Mar)	Y	850 (755-1010)	53 (47-63)	High	e	High	105
2. FURNITURE AND CABINET MAKING										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haladwar, halawan (Guj), heddi, yetagal (Kan), hedu (Mar)	Y	705 (655-785)	44 (41-49)	Low	a	Moderate	95
<i>Albizzia lebbek</i> Benth.	kokko	KOK	sirsul (Kan), chichola, siras, siris (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	95
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kalio-siras (Guj), bil- kamhi, godhunchi (Kan)	Z	735 (595-1010)	46 (37-63)	High	c	Moderate	140

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Albizzia procera</i> Benth.	safed-siris	SSI	karangro (Guj), bellati (Kan), kilai, kinhai (Mar)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	95
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohituka</i> Wight et Arn.)	pitraj	PIT	rakta-rohida (Mar)	Y	690 (575-770)	43 (36-48)	High	—	Moderate	95
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	phanas (Guj & Mar), halasu, halsin (Kan)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	90
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu, hebhulsina (Kan), pathphanas (Mar)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	95
<i>Calophyllum</i> sp.	poon	POO	surhonni (Kan)	Z	655 (480-815)	41 (30-51)	Moderate	c	Moderate	85
<i>Cedrela toona</i> Roxb.	toon	TOO	biligandhagiri (Kan), devdari (Mar)	Z	515 (385-610)	32 (24-38)	Low	c	Moderate	65
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	mashwal (Kan), billu (Mar)	Z	960 (835-1 105)	60 (52-69)	Low	—	High	130
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	lal-devdari (Mar)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	90
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (Guj & Mar), biti (Kan)	Y	770 (640-880)	48 (40-55)	High	—	Moderate	115
<i>Dillenia</i> sp.	dillenia	DIL	kanagola (Kan), karmal (Mar)	Y	625 (560-705)	39 (35-44)	Low	—	Moderate	80
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tamruj, timbervo, timru (Guj), balai (Kan), temburni (Mar)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	95
† <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	bilidevdari (Kan)	Z	720 (595-800)	45 (37-50)	High	—	Moderate	90
<i>Gmelina arborea</i> Linn.	gamari	GAM	shivani, shiwan (Guj & Mar), kulimara (Kan)	Z	515 (415-610)	32 (26-38)	High	—	Moderate	75
<i>Lagerstræmia lanceolata</i> Wall. (Syn. <i>Lagerstræmia microcarpa</i> Wight)	benteak	BEN	nana (Guj & Mar), nandi (Kan)	Y	675 (610-815)	42 (38-51)	High	c	Moderate	90
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	bondaro (Guj), chan- nangi (Kan)	Z	755 (705-800)	47 (44-50)	Low	c	High	95
† <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	90
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam (Guj), kadawar (Kan), kaddam, kalamb (Mar)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	85

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE—Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
(1)	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)
<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut (Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	telus (Dangs), tanach (Guj), karimuttal (Kan), tewas (Mar)	Z	850 (800-915)	53 (50-57)	High	—	Moderate	105
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	beo (Guj), honne (Kan), bibla (Mar)	Y	800 (720-880)	50 (45-55)	High	c	Moderate	100
<i>Stereospermum</i> sp.	padri	PAD	kandol (Guj), genasing, mukarti (Kan), kursing, pudoli (Mar)	Z	720 (560-975)	45 (35-61)	Low	—	Moderate	95
<i>Tectona grandis</i> Linn. f.	teak	TEA	sag (Guj & Mar), sagwan (Hin), tegu (Kan)	X	640 (515-785)	40 (32-49)	High	c	Moderate	100
<i>Terminalia paniculata</i> Roth	kindal	KIN	honal (Kan), kindal (Mar)	Y	770 (655-880)	48 (41-55)	Moderate	c	High	100
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	karimatti, matti (Kan), ain, sajad (Mar)	X	895 (770-995)	56 (48-62)	Moderate	b	High	110
3. LIGHT PACKING CASES										
† <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	aduso (Guj), helbeva (Kan), maharukh (Mar)	Z	415 (335-480)	26 (21-30)	—	—	Low	70
† <i>Alstonia scholaris</i> R. Br.	chatian	CHT	saptaparni, satwin (Mar)	Z	415 (350-465)	26 (22-29)	Low	—	Low	70
<i>Boswellia serrata</i> Roxb.	salai	SAA	saledi (Guj), salai (Mar)	Y	575 (495-800)	36 (31-50)	Low	c	Low	85
† <i>Canarium strictum</i> Roxb.	white dhup	WDH	raldhup (Kan), gugul (Mar)	Z	640 (480-755)	40 (30-47)	Low	—	Low	95
† <i>Elaeocarpus tuberculatus</i> Roxb.	rudrak	RUD	bhutali, kadambola (Kan)	Z	480 (400-575)	30 (25-36)	—	—	Low	75
<i>Gmelina arborea</i> Linn.	gamari	GAM	kulimara (Kan), shivani, shiwani (Mar)	Z	515 (415-610)	32 (26-38)	High	—	Moderate	85
† <i>Hymenodictyon excelsum</i> Wali.	kuthan	KUT	bogi (Kan), bhoga, bhor- sal (Mar)	Z	480 (400-545)	30 (25-34)	Low	c	Low	75
<i>Kydia calycina</i> Roxb.	pula	PUL	bhendi, warrang (Kan & Mar)	Y	385 (—)	24 (—)	—	—	Low	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	modhal, monia (Guj), gojjal (Kan), modal, moyee (Mar)	Y	575 (495-675)	36 (31-42)	Low	c	Moderate	75
† <i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale, benate (Kan)	Z	450 (385-495)	28 (24-31)	Low	—	Low	70
† <i>Machilus macrantha</i> Nees	machilus	MAC	gulmav, gulum (Kan), poswa (Mar)	Z	530 (430-625)	33 (27-39)	High	—	Low	90
† <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	110

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Polyalthia</i> sp.	debdaru	DEB	gauri, murgouri (Kan)	Z	640 (450-850)	40 (28-53)	Low	—	Moderate	85
‡ <i>Salmatia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	simalo (Guj), bural, sauri (Kan), sawar (Mar)	Y	385 (255-530)	24 (16-33)	Low	a	Low	70
‡ <i>Spondias</i> sp.	amra	AMR	amte (Kan), ambada, ranamboda (Mar)	Z	450 (—)	28 (—)	Low	—	Low	—
<i>Tetrameles nudiflora</i> R. Br.	maina	MAI	kapsin (Kan & Mar), jermal (Mar)	Z	320 (—)	20 (—)	Low	a	Low	—
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	katkumbal (Kan), petani, petari (Mar)	Z	450 (—)	28 (—)	Low	—	Low	—
<i>Vateria indica</i> Linn.	vellapine	VEL	gugle, maddidhupa, paini (Kan)	Z	595 (480-690)	37 (30-43)	Low	c	Low	80
4. HEAVY PACKING CASES (for packing machinery and similar stores)										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haladwar, haldwan (Guj), heddi, yetagal, (Kan), hedu (Mar)	Y	705 (655-785)	44 (41-49)	Low	a	Moderate	105
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	phanas (Guj & Mar), halasu, halsin (Kan)	Z	595 (415-735)	37 (25-46)	High	—	Moderate	95
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu, hebhulsina (Kan), pathphanas (Mar)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	95
<i>Bischofia javanica</i> Blume	uriam	URI	nilimara (Kan), bok (Mar)	Z	755 (595-865)	47 (37-54)	Low	c	High	95
<i>Calophyllum</i> sp.	poon	POO	surhonni (Kan)	Z	655 (480-815)	41 (30-51)	Moderate	c	Moderate	100
<i>Cedrela toona</i> Roxb.	toon	TOO	biligandhagiri (Kan), devdari (Mar)	Z	515 (385-610)	32 (24-38)	Low	c	Moderate	80
<i>Dillenia</i> sp.	dillenia	DIL	kanagola (Kan), karmal (Mar)	Y	625 (560-705)	39 (35-44)	Low	—	Moderate	90
‡ <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	bilidevdari (Kan)	Z	720 (595-800)	45 (37-50)	High	—	Moderate	105
<i>Garuga pinnata</i> Roxb.	garuga	GAU	kakad, karapti (Guj), kurak (Kan), kakad (Mar)	X	610 (465-690)	38 (29-43)	Low	c	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	kulimara (Kan), shivani, shiwani (Mar)	Z	515 (415-610)	32 (26-38)	High	—	Moderate	85

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRACTORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Lagerstræmia lanceolata</i> Wall (Syn. <i>Lagerstræmia microcarpa</i> Wight)	benteak	BEN	nana (Guj & Mar), nandi (Kan)	Y	675 (610-815)	42 (38-51)	High	c	Moderate	105
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	bondaro (Guj), chan- nangi (Kan)	Z	755 (705-800)	47 (44-50)	Low	c	High	110
† <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), amba (Mar)	Y	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Stereospermum</i> sp.	padri	PAD	kandol (Guj), genasing, mukarti (Kan), kursing, pudoli (Mar)	Z	720 (560-975)	45 (35-61)	Low	—	Moderate	120
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jambu (Guj), nerlu (Kan), jambul (Mar)	Y	850 (705-1 025)	53 (44-64)	Moderate	c	High	110
<i>Tectona grandis</i> Linn. t.	teak	TEA	sag (Guj & Mar), sagwan (Hin), tegu (Kan)	X	640 (515-785)	40 (32-49)	High	c	Moderate	100
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	baheda (Guj), tare, tari (Kan), vehela (Mar)	Y	815 (675-895)	51 (42-56)	Low	b	Moderate	—
5. AGRICULTURAL IMPLEMENTS AND TOOL HANDLES										
<i>Acacia arabica</i> Willd.	babul	BAB	baval, bawal (Guj), fali, jali, mashwel (Kan)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	135
<i>Acacia catechu</i> Willd.	khair	KHA	khair (Hin), kath (Kan)	Y	1 010 (880-1 170)	63 (55-73)	High	—	High	130
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	dhardo, dhauru, dhavado, dhavdo (Guj & Mar), dindal (Kan)	Z	930 (785-1 105)	58 (49-69)	Low	c	High	120
<i>Careya arborea</i> Roxb.	kumbi	KUM	kaval (Kan), kumbhi, kumbia (Mar)	Z	785 (560-915)	49 (35-57)	High	—	High	95
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (Guj & Mar), biti (Kan)	Y	770 (640-880)	48 (40-55)	High	—	Moderate	110
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tanruj, timbervo, timru (Guj), balai (Kan), temburni (Mar)	X	835 (655-1 105)	52 (41-69)	Low	—	Moderate	90
<i>Grewia</i> sp.	dhaman	DHA	dadsal, thadsal (Kan)	Y	785 (610-880)	49 (38-55)	Moderate	d	Moderate	125
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	bondaro (Guj), chan- nangi (Kan)	Z	755 (705-800)	47 (44-50)	Low	c	High	100
<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut Syn. <i>Ougeinia dalbergioides</i> Benth.)	sandan	SAD	telus (Dangs), tanach (Guj), karimuttal (Kan), tewas (Mar)	Z	850 (800-915)	53 (50-57)	High	—	Moderate	95
<i>Schleichera oleosa</i> Oken. Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	sagada, sagodi (Kan), hosimb, kusumb (Mar)	Z	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	155

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
(1)	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)
<i>Strychnos nux-vomica</i> Linn.	kuchala	KUC	kara (Mar)	Z	880	55	—	—	High	—
<i>Thespesia populnea</i> Sol.	bhendi	BHE	hoovarsu (Kan), bhendi (Mar)	Z	770 (640-895)	48 (40-56)	—	—	Moderate	130
6. TURNERY ARTICLES AND TOYS										
<i>Acacia arabica</i> Willd.	babul	BAB	baval, bawal (Guj), fali, jali, mashwel (Kan)	Y	785 (720-900)	49 (45-56)	Low	b	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haladwar, haldwan (Guj), heddi, yetagal (Kan), hedu (Mar)	Y	705 (655-785)	44 (41-49)	Low	a	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	phanas (Guj & Mar), halasu, halsin (Kan)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu, hebhulsina (Kan), pathphanas (Mar)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	biligandhagiri (Kan), devdari (Mar)	Z	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	mashwal (Kan), billu (Mar)	Z	960 (835-1105)	60 (52-69)	Low	—	High	—
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	lal-devdari (Mar)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	—
<i>Cinnamomum</i> sp.	cinnamon	CIN	riani (Kan), dalchini (Mar)	Z	655 (545-770)	41 (34-48)	Low	—	Moderate	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (Guj & Mar), biti (Kan)	Y	770 (640-880)	48 (40-55)	High	—	Moderate	—
<i>Diospyros melanoxylon</i> Roxb.	ebony	EBO	tamruj, timbervo, timru (Guj), balai (Kan), tem- burni (Mar)	X	835 (655-1105)	52 (41-69)	Low	—	Moderate	—
<i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	bilidevdari (Kan)	Z	720 (595-800)	45 (37-50)	High	—	Moderate	—
<i>Fagara budrunga</i> Roxb. [Syn. <i>Xanthoxylum rhetsa</i> (Roxb.) DC.]	mullilam	MUI	jamin (Kan), tirphul, triphal (Mar)	Z	735 (690-815)	46 (43-51)	Moderate	—	Moderate	—
<i>Gardenia</i> sp.	gardenia	GAR	papur (Mar)	Z	755 (690-835)	47 (43-52)	—	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	shivani, shiwan (Guj & Mar), kulumara (Kan)	Z	515 (415-610)	32 (26-38)	High	—	Moderate	—
<i>Lagerstræmia lanceolata</i> Wall. (Syn. <i>Lagerstræmia microcarpa</i> Wight)	benteak	BEN	nandi (Kan), nana (Mar)	Y	575 (610-815)	42 (38-51)	High	e	Moderate	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woder</i> Roxb.)	jhingam	JHI	modhal, monia (Guj), gojjal (Kan), modal, moyee (Mar)	Y	575 (495-675)	36 (31-42)	Low	e	Moderate	—

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Milusa tomentosa</i> (Roxb.) J. Sinclair (Syn. <i>Saccopetalum tomentosum</i> Hook. f. et Th.)	hoom	HOO	humb (Guj & Mar), woomb (Kan)	Z	735 (655-835)	46 (41-52)	Low	—	Moderate	—
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kalam (Guj), kadawar (Kan), kaddam, kalamb (Mar)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	—
<i>Santalum album</i> Linn.	sandalwood	SAN	gandha (Kan), chandan (Mar)	Z	915 (—)	57 (—)	—	—	Moderate	—
7. VENEERS AND PLYWOOD										
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	haladwar, haldwan, (Guj), heddi, yetagal, (Kan), hedu (Mar)	Y	705 (655-785)	44 (41-49)	Low	a	Moderate	—
† <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	aduso (Guj), helbeva (Kan), maharukh (Mar)	Z	415 (335-480)	26 (21-30)	—	—	Low	—
<i>Albizzia lebbeck</i> Benth.	kokko	KOK	sirsul (Kan), chichola, siras, siris (Mar)	Z	640 (480-755)	40 (30-47)	High	c	Moderate	—
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	kalio-siras (Guj), bil- kambi, godhunchi (Kan)	Z	735 (595-1 010)	46 (37-63)	High	c	Moderate	—
<i>Albizzia procera</i> Benth.	safed-siris	SSI	karangro (Guj), bellati (Kan), kilai, kinhai (Mar)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	—
† <i>Alstonia scholaris</i> R. Br.	chatian	CHT	saptaparni, satwin (Mar)	Z	415 (350-465)	26 (22-29)	Low	—	Low	—
<i>Amoora</i> sp.	amari	AMA	—	Y	625 (495-735)	39 (31-46)	—	—	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	phanas (Guj & Mar), halasu, halsin (Kan)	Z	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Artocarpus hirsuta</i> Lamk.	aimi	AIN	hebbalasu, hebbulsina (Kan), pathphanas (Mar)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	—
<i>Boswellia serrata</i> Roxb.	salai	SAA	saledi (Guj), salai (Mar)	Y	575 (495-800)	36 (31-50)	Low	c	Low	—
† <i>Canarium strictum</i> Roxb.	white dhup	WDH	raldhup (Kan), gugul (Mar)	Z	640 (480-755)	40 (30-47)	Low	—	Low	—
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	lal-devdari (Mar)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	shisham (Guj & Mar), biti (Kan)	Y	770 (640-880)	48 (40-55)	High	—	Moderate	—
<i>Dillenia</i> sp.	dillenia	DIL	kanagola (Kan), karmal (Mar)	Y	625 (560-705)	39 (35-44)	Low	—	Moderate	—

TABLE IV CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, WEST ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRACTORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dipterocarpus indicus</i> Bedd.	gurjan	GUR	challane, kalpine (Kan)	Z	785	49	Moderate	b	Moderate	—
‡ <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	bilidevdari (Kan)	Z	(705-900) 720	(44-56) 45	High	—	Moderate	—
<i>Fagara budrunga</i> Roxb. [Syn. <i>Zanthoxylum rhetsa</i> (Roxb.) D.C.]	mullilam	MUI	jamin (Kan), tirphul, triphal (Mar)	Z	(595-800) 735	(37-50) 46	Moderate	—	Moderate	—
<i>Garuga pinnata</i> Roxb.	garuga	GAU	kakad, karapti (Guj), kurak (Kan), kakar (Mar)	X	(690-815) 610	(43-51) 38	Low	e	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	kulimara (Kan), shivani, shiwani (Mar)	Z	(415-610) 515	(26-38) 32	High	—	Moderate	—
‡ <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	bogi (Kan), bhoga, bhorsal (Mar)	Z	(400-545) 480	(25-34) 30	Low	c	Low	—
<i>Lagerstrœmia lanceolata</i> Wall. (Syn. <i>Lagerstrœmia microcarpa</i> Wight)	benteak	BEN	nana (Guj & Mar), nandi (Kan)	Y	(610-815) 675	(38-51) 42	High	e	Moderate	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingan	JHI	raodhal, monia (Guj), gojjal (Kan), modal, moyee (Mar)	Y	(495-675) 575	(31-42) 36	Low	c	Moderate	—
‡ <i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale, benate (Kan)	Z	(385-495) 450	(24-31) 28	Low	—	Low	—
‡ <i>Machilus macrantha</i> Nees	machilus	MAC	gulmav, gulum (Kan), poswa (Mar)	Z	(430-625) 530	(27-39) 33	High	—	Low	—
‡ <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), amba (Mar)	Y	(610-800) 690	(38-50) 43	Low	a	Low	—
‡ <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	simalo (Guj), bural, sauri (Kan), sawar (Mar)	Y	(255-530) 385	(16-33) 24	Low	a	Low	—
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	jambu (Guj), nerlu (Kan), jambul (Mar)	Y	(705-1025) 850	(44-64) 53	Moderate	e	High	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	sag (Guj & Mar), sagwan (Hin), tegu (Kan)	X	(515-785) 640	(32-49) 40	High	e	Moderate	—
<i>Terminalia paniculata</i> Roth	kindal	KIN	honai (Kan), kindal (Mar)	Y	(655-880) 770	(41-55) 48	Moderate	c	High	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	karimatti, matti (Kan), ain, sajad (Mar)	X	(770-995) 895	(48-62) 56	Moderate	b	High	—
<i>Tetraneles nudiflora</i> R. Br.	maina	MAI	lapsin (Kan & Mar), jermal (Mar)	Z	(—) 320	(—) 20	Low	a	Low	—
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	katkumbal (Kan), petani, petari (Mar)	Z	(—) 450	(—) 28	Low	—	Low	—
<i>Vateria indica</i> Linn.	vellapine	VEL	gugle, maddidhupa, paini (Kan)	Z	(480-690) 595	(30-43) 37	Low	e	Low	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE

(Clause 4)

NOTE — Mark (‡) against a species indicates matchwood.

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. CONSTRUCTIONAL PURPOSES										
<i>Acacia arabica</i> Willd.	babul	BAB	karijali (Kan), karuvelam (Mal), karuvai (Tam), nallatamma (Tel)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	105
<i>Acacia catechu</i> Willd.	khair	KHA	karangalli (Tam), sandra (Tel)	Z	1 010 (880-1 170)	63 (55-73)	High	—	High	120
<i>Acacia sundra</i> Willd.	lal-khair	LKH	—	Z	1 120 (1 040-1 235)	70 (65-77)	—	—	High	150
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	belanji (Kan), kuranyan, malaveppu (Mal), malamkonnai (Tam)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	100
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	yettaga (Kan), bimbura (Mal), kadambari, manjakadambai (Tam), bandaru (Tel)	X	705 (655-785)	44 (41-49)	Low	a	Moderate	80
<i>Aglia</i> sp.	aglaia	AGL	karangil (Mal), chokkala (Tam)	Z	850 (610-960)	53 (38-60)	—	—	High	105
<i>Albizzia lebeck</i> Benth.	kokko	KOK	bage (Kan), vaka (Mal), vagai (Tam), dirisinam (Tel)	Y	640 (480-755)	40 (30-47)	High	c	Moderate	90
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	chelavagai (Kan), karuvaka (Mal), karuvagai (Tam), chinduga (Tel)	Y	735 (595-1 010)	46 (37-63)	High	e	Moderate	120
<i>Albizzia procera</i> Benth.	safed-siris	SSI	salvagai (Kan), vellavaka (Mal), velvagai (Tam), tella chinduga (Tel)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	85
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bejjal, dinduga (Kan), vellanova (Mal), vellanagai (Tam), chirumanu (Tel)	X	975 (865-1 105)	61 (54-69)	Low	e	High	95
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohituka</i> Wight et Arn.)	pitraj	PIT	mullumuttaga (Kan), karagil (Mal), vekkali, vellakongu (Tam)	Z	690 (575-770)	43 (36-48)	High	—	Moderate	90
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	alasua, halasu (Kan), pilavu (Mal), pila (Tam), panasa (Tel)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	75
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu (Kan), ainipilavu (Mal), ainipila, anjili (Tam)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	30

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Artocarpus lakoocha</i> Roxb.	lakooch	LAK	vate (Kan)	Z	640 (—)	40 (—)	High	—	Moderate	—
<i>Bischofia javanica</i> Blume	uriam	URI	cholavenga (Mal), chola- vengai, malachadayan (Tam)	Z	755 (595-865)	47 (37-54)	Low	e	High	75
<i>Bridelia retusa</i> Spreng.	kasi	KAS	guje, komangi (Kan), mulluvenga (Mal), mul- vengai (Tam), kor- amanu (Tel)	Z	595 (515-675)	37 (32-42)	Moderate	e	Moderate	75
<i>Calophyllum</i> sp.	poon	POO	goja, salhonne, surahonne (Kan), punna (Mal), kathupinnai (Tam)	Y	655 (480-815)	41 (30-51)	Moderate	e	Moderate	85
<i>Casuarina equisetifolia</i> Linn.	casuarina	CAS	kesarika (Kan), chula- maram (Mal), savukku (Tam), chavuku, saravu (Tel)	X	850 (785-930)	53 (49-58)	Low	c	High	90
<i>Cedrela toona</i> Roxb.	toon	TOO	gandhagarige (Kan), chuvannagil (Mal), malavembu (Tam), gali- manu (Tel)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	60
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	muragalu (Kan), porasu (Tam), bilga, billu (Tel)	Y	960 (835-1105)	60 (52-69)	Low	—	High	110
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	urulu (Kan), malaveppu (Mal), madagirivembu (Tam)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	90
<i>Cullenia excelsa</i> Wight	karani	KAR	mulluchakka (Mal), aini- pila, vedipila (Tam)	Y	640 (560-720)	40 (35-45)	Low	b	Low	100
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	biti (Kan), veeti (Mal), itti (Tam), jittengi (Tel)	X	770 (640-880)	48 (40-55)	High	—	Moderate	80
<i>Diospyros</i> sp.	ebony	EBO	tupra (Kan), thumbi (Tam), tuki, tumiki (Tel)	Y	835 (655-1105)	52 (41-69)	Low	—	Moderate	75
<i>Dipterocarpus indicus</i> Bedd.	gurjan	GUR	yennemara (Coorg), kal- payini, kalpine (Mal), enney, velayini (Tam)	X	785 (705-900)	49 (44-56)	Moderate	b	Moderate	105
<i>Eucalyptus globulus</i> Labill.	blue gum	BGU	karpooramaram (Tam)	Y	850 (690-960)	53 (43-60)	High	e	High	120
<i>Gluta travancorica</i> Bedd.	gluta	GLU	devdari (Kan), chenk- urunchi (Mal), senkurunji (Tam)	Z	720 (595-900)	45 (37-56)	High	—	High	115
<i>Gmelina arborea</i> Linn.	gamari	GAM	kumulu, shivane (Kan), kumilu (Mal), kumil (Tam), gummadi (Tel)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	55

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEST AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Grewia tiliaefolia</i> Vahl.	dhaman	DHA	thadasalu (Kan), chada- chi (Mal), thadachi (Tam), peddajana (Tel)	Y	785 (610-880)	49 (38-55)	Moderate	d	Moderate	120
<i>Hardwickia binata</i> Roxb.	anjan	ANJ	karacha, karachi (Kan), acha (Mal & Tam), yepi (Tel)	Y	850 (735-1 025)	53 (46-64)	High	e	High	70
<i>Hopea</i> sp.	hopea	HOP	bogimar (Kan), irumbo- gam (Mal), vellaigongu (Tam)	Y	995 (755-1 170)	62 (47-73)	High	e	High	120
<i>Kingiodendron pinnatum</i> (Roxb.) Harms.	piney	PIN	yennamara (Kan), chuk- kana-payini (Mal), kolavu (Tam)	X	625 (530-705)	39 (33-44)	High	e	Moderate	85
(Syn. <i>Hardwickia pinnata</i> Roxb.) <i>Lagerstræmia lanceolata</i> Wall. (Syn. <i>Lagerstræmia microcarpa</i> Wight)	benteak	BEN	bendeku, nandi (Kan), ventek (Mal), bethe- kku, venthekhu (Tam)	X	610 (480-705)	38 (30-44)	High	e	Moderate	95
<i>Lagerstræmia parviflora</i> Roxb.	lendi	LEN	channangi (Kan & Tel), nanagu (Mal), pei- kadukkai (Tam)	Z	755 (705-800)	47 (44-50)	Low	e	High	95
<i>Lagerstræmia speciosa</i> Pers. (Syn. <i>Lagerstræmia flosreginae</i> Retz.)	jarul	JAR	nirmaruthu (Mal), poomaruthu, pumarudu (Tam)	Z	625 (495-785)	39 (31-49)	Moderate	e	Moderate	80
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina wodier</i> Roxb.)	jhingaa	JHI	geru (Kan), annakara, uthi (Mal), kalasan, odiyamaram (Tam), gumpini (Tel)	Y	575 (495-675)	36 (31-42)	Low	e	Moderate	50
<i>Madhuca</i> sp. (Syn. <i>Bassia</i> sp.)	mahua	MAU	sannaippe (Kan), nattuill- lupai (Tam), ippa (Tel)	Y	915 (755-1 040)	57 (47-65)	High	e	High	75
† <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), mamaram (Tam), mamidi (Tel)	X	690 (610-800)	43 (38-50)	Low	a	Low	75
<i>Manilkara</i> sp. (Syn. <i>Mimuseps</i> sp.)	bullet-wood	BUL	bakula, mugali (Kan), elengi (Mal), nanupala (Tem), pala (Tel)	Y	895 (785-995)	56 (49-62)	High	—	High	125
<i>Mesua ferrea</i> Linn.	mesua	MES	nagasampigi (Kan), chu- ruli (Mal), nangal, nangu (Tam), nagake- sari (Tel)	X	1 135 (1 010-1 300)	71 (63-81)	High	e	High	150
<i>Palaequium ellipticum</i> (Dalz.) Engler (Syn. <i>Dichopsis elliptica</i> Benth.)	paji	PAL	hadasale (Kan), palva- dinjan (Tam)	X	640 (495-770)	40 (31-48)	Moderate	e	Moderate	95
<i>Peciloneuron indicum</i> Bedd.	ballagi	BAL	bailige, balagi (Kan), vayal (Mal), putangali (Tam)	Y	1 135 (1 010-1 235)	71 (63-77)	Moderate	e	High	145

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	honne (Kan), venga (Mal), vengai (Tam), yegi (Tel)	Y	800 (720-880)	50 (45-55)	High	c	Moderate	100
<i>Pterocarpus santalinus</i> Linn. f.	red sanders	RSA	rakthachandanam (Kan & Mal), chemmaram (Tam), yerra-sandanam (Tel)	Y	1 105 (900-1 265)	69 (56-79)	—	—	High	125
<i>Schleichera oleosa</i> Oken. (Syn. <i>Schleichera trijuga</i> Willd.)	kusam	KUS	sagade (Kan), puvam (Mal & Tam), pulusari (Tel)	Y	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	140
<i>Stereospermum</i> sp.	padri	PAD	kaladri, pathiri (Kan), padiri (Mal & Tam), isikirasi (Tel)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	85
<i>Strychnos nux-vomica</i> Linn.	kuchla	KUC	kasani, kasarika (Kan), kanjiram (Mal), yetti (Tam), mushti (Tel)	X	880 (—)	55 (—)	—	—	High	—
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	nerlu, nerula (Kan), naval (Mal & Tam), neredu (Tel)	Y	850 (705-1 025)	53 (44-64)	Moderate	c	High	95
<i>Tamarindus indica</i> Linn.	imli	IML	hunse (Kan), puli (Tam), chintha (Tel)	X	915 (—)	57 (—)	—	—	Moderate	65
<i>Tectona grandis</i> Linn. f.	teak	TEA	saguvain, thega, thekin- amra (Kan), theku (Mal & Tam), teku (Tel)	X	690 (560-850)	43 (35-53)	High	c	Moderate	100
<i>Terminalia arjuna</i> W & A.	arjun	ARJ	bilimaddi, thoramatti (Kan), vellilava (Mal), vellamaruthu (Tam), tollamaddi (Tel)	Y	815 (640-995)	51 (40-62)	Moderate	b	Moderate	70
<i>Terminalia chebula</i> Retz.	myrabolan	MYR	allale (Kan), pulincakku (Mal), colaippakku, illa- gucam, kadukkai (Tam), karakkai (Tel)	Y	945 (755-1 140)	59 (47-71)	Low	c	High	105
<i>Terminalia paniculata</i> Roth	kindal	KIN	honagalu, honal, hunal (Kan), pillamarudu (Mal & Tam), nallapu- laga (Tel)	X	800 (720-900)	50 (45-56)	Moderate	c	High	95
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	banappu (Kan), karu- marudu (Mal), karima- rudu, matti (Tam), nallamaddi (Tel)	X	895 (770-995)	56 (48-62)	Moderate	b	High	100
<i>Vitex altissima</i> Linn. f.	milla	MIL	naviladi, nevaladi (Kan), myladi (Mal), mayiladi (Tam), nemiliyadugu (Tel)	Z	930 (655-1 060)	58 (41-66)	High	—	High	115

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Xylia xylocarpa</i> Taub.	irul	IRU	jambc, tirwa (Kan), irul (Tam), konda tangedu (Tel)	X	850 (755-1 010)	53 (47-63)	High	c	High	105
2. FURNITURE AND CABINET MAKING										
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	belanji (Kan), kuranyan, malaveppu (Mal), malamkonnai (Tam)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	100
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	ye. taga (Kan), bimbu (Mal), kadambari, man- jakadambai (Tam), bandaru (Tel)	X	705 (655-785)	44 (41-49)	Low	a	Moderate	95
<i>Albizzia lebeck</i> Benth.	kokko	KOK	bage (Kan), vaka (Mal), vagai (Tam), dirisinum (Tel)	Y	640 (515-755)	40 (32-47)	High	c	Moderate	95
<i>Albizzia odoratissima</i> Benth.	kala-siris	KSI	chelavagai (Kan), karu- vaka (Mal), karuvagai (Tam), chinduga (Tel)	Y	735 (595-1 010)	46 (37-63)	High	c	Moderate	140
<i>Albizzia procera</i> Benth.	safed-siris	SSI	salvagai (Kan), vellavaka (Mal), velvagai (Tam), tellachinduga (Tel)	Z	640 (495-835)	40 (31-52)	Moderate	c	Moderate	95
<i>Aphanamixis polystachya</i> (Wall.) Parker (Syn. <i>Amoora rohituka</i> Wight et Arn.)	pitraj	PIT	mullumuttaga (Kan), karagil (Mal), vekkali, vellakongu (Tam)	Z	690 (575-770)	43 (36-48)	High	—	Moderate	95
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	alasua, halasu (Kan), pilavu (Mal), pila (Tam), panasa (Tel)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	90
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu (Kan), ainipi- lavu (Mal), ainipila, anjili (Tam)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	95
<i>Calophyllum</i> sp.	poon	POO	goja, salhonne, surahonne (Kan), punna (Mal), kathurinnai (Tam)	Y	655 (480-815)	41 (30-51)	Moderate	c	Moderate	85
<i>Cedrela toona</i> Roxb.	toon	TOO	ganchagarige (Kan), chu- vannagil (Mal), mala- vcmbu (Tam), galima- nu (Tel)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	65
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	muragalu (Kan), porasu (Tam), bilga, billu (Tel)	Y	960 (835-1 105)	60 (52-69)	Low	—	High	130
<i>Chukrasia tabularis</i> Adr. Juss.	chickrassy	CHI	urulu (Kan), malaveppu (Mal), madagirivembu (Tam)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	90

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³ (6)	lb/ft ³ (7)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Dalbergia latifolia</i> Roxb.	rosewood (blackwood)	ROS	biti (Kan), vetti (Mal), itti (Tam), jittegi (Tel)	X	770 (640-880)	48 (40-55)	High	—	Moderate	115
<i>Diospyros</i> sp.	ebony	EBO	tupra (Kan), thumbi (Tam), tuki, tumiki (Tel)	Y	835 (655-1105)	52 (41-69)	Low	—	Moderate	95
† <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	vella-gil (Mal & Tam)	Y	720 (595-800)	45 (37-50)	High	—	Moderate	90
<i>Fagara budrunga</i> Roxb. [Syn. <i>Zanthoxylum rhetsa</i> (Roxb.) DC.]	mullilam	MUI	muttilam (Tam), rhetsa (Tel)	Z	735 (690-815)	46 (43-51)	Moderate	—	Moderate	100
<i>Gluta travancorica</i> Bedd.	gluta	GLU	devdari (Kan), chenku- runchi (Mal), senkurunji (Tam)	Z	720 (595-900)	45 (37-56)	High	—	High	110
<i>Gmelina arborea</i> Linn.	gamari	GAM	kumulu, shivane (Kan), kumilu (Mal), kumil (Tam), gummadi (Tel)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	75
58 <i>Kingiodendron pinnatum</i> (Roxb.) Harms. (Syn. <i>Hardwickia pinnata</i> Roxb.)	piney	PIN	yennamara (Kan), chuk- kanna-payini (Mal), kolavu (Tam)	Y	625 (530-705)	39 (33-44)	High	c	Moderate	90
<i>Lagerstramia lanceolata</i> Wall. (Syn. <i>Lagerstramia microcarpa</i> Wight)	benteak	BEN	bendeku, nandi (Kan), venteak (Mal), bethck- ku, venthekhu (Tam)	X	610 (480-705)	38 (30-44)	High	c	Moderate	90
<i>Lagerstramia parviflora</i> Roxb.	lendi	LEN	channangi (Kan & Tel), nanagu (Mal), peika- dukkai (Tam)	Z	755 (705-800)	47 (44-50)	Low	c	High	95
† <i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale (Kan), karuka, venkataavu (Mal), ven- gottai (Tam)	Z	450 (385-495)	28 (24-31)	Low	—	Low	60
<i>Michelia champaca</i> Linn.	champ	CHM	sampige (Kan), chambe- gam, chempakam, shan- bagam (Tam), champa- kam (Tel)	Z	495 (400-595)	31 (25-37)	Low	c	Moderate	70
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephegyne parvifolia</i> Korth.)	kaim	KAI	kadamba, vimbusira- kadambu (Mal), nedu- narai, nirkadambai (Tam)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	85
<i>Palaquium ellipticum</i> (Dalz.) Engler (Syn. <i>Dichopsis elliptica</i> Benth.)	pali	PAL	hadasale (Kan), palva- dinjan (Tam)	X	640 (495-770)	40 (31-48)	Moderate	c	Moderate	85
<i>Pterocarpus marsupium</i> Roxb.	bijasal	BIJ	honne (Kan), venga (Mal), vengai (Tam), yegi (Tel)	Y	800 (720-880)	50 (45-55)	High	c	Moderate	100

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Pterocarpus santalinus</i> Linn. f.	red sanders	RSA	rakhtachandanam (Kan & Mal), chemmaram (Tam), yerra-sandanam (Tel)	Y	1 105 (900-1 265)	69 (56-79)	—	—	High	165
<i>Stereospermum</i> sp.	padri	PAD	kaladri, pathiri (Kan), padiri (Mal & Tam), isikirasi (Tel)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	95
<i>Swietenia</i> sp.	mahogany	MAO	—	Z	655 (—)	41 (—)	—	—	Moderate	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	saguvain, thega, theki- namra (Kan), theku (Mal & Tam), teku (Tel)	X	690 (560-850)	43 (35-53)	High	c	Moderate	100
<i>Terminalia paniculata</i> Roth	kindal	KIN	honagalu, honal, hunal (Kan), pillamarudu (Mal & Tam), nallapu- laga (Tel)	X	800 (720-900)	50 (45-56)	Moderate	c	High	100
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	banappu (Kan), karuma- rudu (Mal), karima- rudu, matti (Tam), nallamaddi (Tel)	X	895 (770-995)	56 (48-62)	Moderate	b	High	110
3. LIGHT PACKING CASES										
† <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	halmaddi, maddidhupa (Kan)	Y	415 (335-480)	26 (21-30)	—	—	Low	70
<i>Ailanthus malabarica</i> DC.			peenari, perumaram, pon- giliyam (Mal), mattipal, pimaram (Tam), ped- damanu (Tel)							
<i>Alstonia scholaris</i> R. Br.	chatian	CHT	ezhilampala, mukampala (Mal), elalaipalai, muk- kampalei, palegaruda (Tam)	Y	415 (350-465)	26 (22-29)	Low	—	Low	70
† <i>Anthocephalus cadamba</i> Miq.	kadam	KAD	attuthekkku, kadambam (Mal), kola aiyila, vella- kadam (Tam)	Z	495 (385-640)	31 (24-40)	Low	a	Low	85
<i>Antiaris toxicaria</i> Leschen.	upas	UPA	arcianjili (Mal), mara- vari, peymaram (Tam)	Z	320 (—)	20 (—)	—	—	Low	—
† <i>Canarium strictum</i> Roxb.	white dhup	WDH	kunthirikka-payin (Mal), karapu, karum, karun- kungiliam (Tam)	Y	640 (480-755)	40 (30-47)	Low	—	Low	95
<i>Cullenia excelsa</i> Wight	karani	KAR	mulluchakka (Mal), aini- pila, vedipila (Tam)	Y	640 (560-720)	40 (35-45)	Low	b	Low	100

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Elaeocarpus tuberculatus</i> Roxb.	rudrak	RUD	kadambola (Kan), am- makaram, kodavasi (Mal), rudraksham (Tam)	Z	480 (400-575)	30 (25-36)	—	—	Low	75
‡ <i>Evoidia lunur-ankenda</i> Merr. (Syn. <i>Evoidia roxburghiana</i> Benth.)	kambli	KAB	kattu chempakkam (Tam)	Y	495 (—)	31 (—)	—	—	Moderate	—
<i>Gmelina arborea</i> Linn.	gamari	GAM	kumulu, shivane (Kan), kumilu (Mal), kumil (Tam), gumnadi (Tel)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	thapsi (Kan), aval (Mal), ayili (Tam)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	95
<i>Knema attenuata</i> Warb. (Syn. <i>Myristica attenuata</i> Wall.)	jathikai	JAT	chennelli, choiananu (Mal), jattikkai (Tam)	Z	515 (415-595)	32 (26-37)	Low	—	Low	75
<i>Kydia calycina</i> Roxb.	pula	PUL	velukku (Mal), bendi, vattakannu, vendai (Tam)	Y	385 (—)	24 (—)	—	—	Low	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woder</i> Roxb.)	jhingan	JHI	geru (Kan), annakara, uthi (Mal), kalasan, odiyamaram (Tam), gumpini (Tel)	Y	575 (495-675)	36 (31-42)	Low	c	Moderate	75
‡ <i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale (Kan), karuka, venkatavu (Mal), ven- gottai (Tam)	Z	450 (385-495)	28 (24-31)	Low	—	Low	70
‡ <i>Machilus macrantha</i> Nees	machilus	MAC	gulamavo, gulmao (Kan), uravu (Mal), kolamavu, kolarmavu (Tam)	Y	530 (430-625)	33 (27-39)	High	—	Low	90
‡ <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), mamaram (Tam), mamidi (Tel)	X	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Melia composita</i> Willd. (Syn. <i>Melia dubia</i> Hiern)	m a l a b a r neem	MNE	kattu vembu (Mal), mall- ay vembu (Tam)	Z	450	28	—	—	Moderate	—
<i>Pterygota alata</i> R. Br. (Syn. <i>Sterculia alata</i> Roxb.)	narikel	NAR	anathondi, pothondi (Mal), anathondi (Tam)	Z	560 (450-640)	35 (23-40)	—	—	Low	90
‡ <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	ilavu, poola (Mal), ilavam (Tam), buruga (Tel)	Y	385 (255-530)	24 (16-33)	Low	a	Low	70
‡ <i>Sterculia villosa</i> Roxb.	udal	UDA	muruthon (Mal), vak- kainar (Tam)	Y	270 (—)	17 (—)	—	—	Low	—
<i>Tetrameles nudiflora</i> R. Br.	maina	MAI	bolur (Kan), chini (Mal & Tam)	X	320 (—)	20 (—)	Low	a	Low	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
† <i>Trewia nudiflora</i> Linn.	gutel	GUT	naikumoil, pamambara- kumbil, thivala (Mal), kumbala (Tam)	Y	450 (—)	28 (—)	Low	—	Low	—
<i>Vateria indica</i> Linn.	vellapine	VEL	dhur, kaijhuva (Kan), payin, vellakunthirikam (Mal), vellaikundrikam, vellapayini (Tam)	X	595 (480-690)	37 (30-43)	Low	c	Low	80
4. HEAVY PACKING CASES (for packing machinery and similar stores)										
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	belanji (Kan), kuranyan, malaveppu (Mal), malamkonnai (Tam)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	110
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	yetta (Kan), bimbu (Mal), kadambari, man- jakadambai (Tam), ban- daru (Tel)	X	705 (655-785)	44 (41-49)	Low	a	Moderate	105
<i>Albizzia chinensis</i> (Osbeck) Merr. (Syn. <i>Albizzia stipulata</i> Boivin)	siris	SIR	kalbage (Kan), pottugaka (Mal), nirusil, pilivagai (Tam), bandichinduga (Tel)	Z	400 (—)	25 (—)	Low	c	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	alasua, halusu (Kan), pilavu (Mal), pila (Tam), panasa (Tel)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	95
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu (Kan), aini- pilavu (Mal), ainipila, anjili (Tam)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	95
<i>Bischofia javanica</i> Blume	uriam	URI	cholavenga (Mal), cho- lavengai, malachadayan (Tam)	Z	755 (595-865)	47 (37-54)	Low	c	High	95
<i>Calophyllum</i> sp.	poon	POO	goja, salhonne, surahonne (Kan), punna (Mal), kathuponnai (Tam)	Y	655 (480-815)	41 (30-51)	Moderate	c	Moderate	100
<i>Cedrela toona</i> Roxb.	toon	TOO	gandhagarige (Kan), chu- vannagil (Mal), mala- vembu (Tam), galimanu (Tel)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	80
<i>Dipterocarpus indicus</i> Bedd.	gurjan	GUR	yennemara (Coorg), kal- payini, kalpine (Mal), enney, vellayini (Tam)	X	785 (705-895)	49 (44-56)	Moderate	b	Moderate	105
† <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	vella-gil (Mal & Tam)	Y	720 (595-800)	45 (37-50)	High	—	Moderate	105

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Fagara budrunga</i> Roxb. [Syn. <i>Xanthoxylum rhetsa</i> (Roxb.) DC.]	mullilam	MUI	muttilam (Tam), rhetsa (Tel)	Z	735 (690-815)	46 (43-51)	Moderate	—	Moderate	110
<i>Garuga pinnata</i> Roxb.	garuga	GAU	godda, halabolagi (Kan), annakara (Mal), karu- vembu (Tam)	Z	610 (465-690)	38 (29-43)	Low	c	Moderate	95
<i>Gmelina arborea</i> Linn.	gamari	GAM	kumulu, shivane (Kan), kumilu (Mal), kumil (Tam), gummadi (Tel)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	85
<i>Kingiodendron pinnatum</i> (Roxb.) Harms. (Syn. <i>Hardwickia pinnata</i> Roxb.)	piney	PIN	yennamara (Kan), chuk- kanna-payini (Mal), kolavu (Tam)	Y	625 (530-705)	39 (33-44)	High	c	Moderate	100
<i>Knema attenuata</i> Warb. (Syn. <i>Myristica attenuata</i> Wall.)	jathikai	JAT	chennelli, chorapanu (Mal), jattikkai (Tam)	Z	515 (415-595)	32 (26-37)	Low	—	Low	75
<i>Lagerstrœmia lanceolata</i> Wall. (Syn. <i>Lagerstrœmia microcarpa</i> Wight)	benteak	BEN	bendeku, nandi (Kan), veteak (Mal), bethe- kku, venthekhu (Tam)	X	610 (480-705)	38 (30-44)	High	c	Moderate	105
<i>Lagerstrœmia parviflora</i> Roxb.	lendi	LEN	channangi (Kan & Tel), nanagu (Mal), peikadu- kkai (Tam)	Z	755 (705-800)	47 (44-50)	Low	c	High	110
<i>Lagerstrœmia speciosa</i> Pers. (Syn. <i>Lagerstrœmia flos-regine</i> Retz.)	jarul	JAR	nirmaruthu (Mal), poo- maruthu, pumarudu (Tam)	Z	625 (495-785)	39 (31-49)	Moderate	c	Moderate	100
<i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale (Kan), karuka, venkatavu (Mal), ven- kottai (Tam)	Z	450 (385-495)	28 (24-31)	Low	—	Low	70
‡ <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), mamaram (Tam), mamidi (Tel)	X	690 (610-800)	43 (38-50)	Low	a	Low	110
<i>Palaquium ellipticum</i> (Dalz.) Engler (Syn. <i>Dichopsis elliptica</i> Benth.)	pali	PAL	hadasalc (Kan), palva- dinjan (Tam)	X	640 (495-770)	40 (31-48)	Moderate	c	Moderate	100
<i>Polyalthia</i> sp.	debdaru	DEB	narelai (Mal), nedunarai (Tam)	Z	640 (450-850)	40 (28-53)	Low	—	Moderate	85
<i>Stereospermum</i> sp.	padri	PAD	kaladri, pathiri (Kan), padiri (Mal & Tam), isikirasi (Tel)	Y	720 (560-975)	45 (35-61)	Low	—	Moderate	120
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jaman	JAM	nerlu, nerula (Kan), naval (Mal & Tam), neredu (Tel)	Y	850 (705-1 025)	53 (44-64)	Moderate	c	High	110
<i>Tectona grandis</i> Linn. f.	teak	TEA	saguvain, thega, thekin- amra (Kan), theku (Mal & Tam), teku (Tel)	X	690 (560-850)	43 (35-53)	High	c	Moderate	100

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6) (11)
(1)	(2)	(3)	(4)	(5)	kg/m ³ (6)	lb/ft ³ (7)	(8)	(9)	(10)	(11)
<i>Terminalia bellirica</i> Roxb.	bahera	BAH	thare (Kan), thanni (Mal), tani (Tam & Tel)	X	815 (675-895)	51 (42-56)	Low	b	Moderate	—
5. AGRICULTURAL IMPLEMENTS AND TOOL HANDLES										
<i>Acacia arabica</i> Willd.	babul	BAB	karijali (Kan), karuvelam (Mai), karuvai (Tam), nalla tumma (Tel)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	135
<i>Acacia catechu</i> Willd.	khair	KHA	karangalli (Tam), sandra (Tel)	Z	1 010 (880-1 170)	63 (55-73)	High	—	High	130
<i>Anogeissus latifolia</i> Wall.	axlewood (bakli)	AXL	bejjal, dinduga (Kan), vellanava (Mal), vella- nagai (Tam), chiru- manu (Tel)	X	975 (865-1 105)	61 (54-69)	Low	c	High	110
<i>Bridelia retusa</i> Spreng.	kasi	KAS	guje, komangi (Kan), mulluvenga (Mal), mul- vengai (Tam), kora- manu (Tel)	Z	595 (515-675)	37 (32-42)	Moderate	c	Moderate	75
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	muragalu (Kan), porasu (Tam), bilga, billu (Tel)	Y	960 (835-1 105)	60 (52-69)	Low	—	High	120
<i>Dalbergia latifolia</i> Roxb.	rosewood (black- wood)	ROS	biti (Kan), veeti (Mal), itti (Tam), jittegi (Tel)	X	770 (640-880)	48 (40-55)	High	—	Moderate	110
<i>Diospyros</i> sp.	ebony	EBO	tupra (Kan), thumbi (Tam), tuki, tumiki (Tel)	Y	835 (655-1 105)	52 (41-69)	Low	—	Moderate	105
<i>Emblia officinalis</i> Gært. n. (Syn. <i>Phyllanthus emblica</i> Linn.)	amla	AML	nelli (Kan & Tam), usiri (Tel)	Y	800 (—)	50 (—)	—	—	High	—
<i>Grewia tiliaefolia</i> Vahl.	dhaman	DHA	thadasalu (Kan), cha- dachi (Mal), thadachi (Tam), peddajana (Tel)	Y	785 (610-880)	49 (38-55)	Moderate	d	Moderate	125
<i>Lagerstramia parviflora</i> Roxb.	lendi	LEN	channangi (Kan & Tel), nanagu (Mal), peikadu- kkai (Tam)	Z	755 (705-800)	47 (44-50)	Low	c	High	100
<i>Manilkara</i> sp. (Syn. <i>Mimusops</i> sp.)	bullet-wood	BUL	bakula, mugali (Kan), elengi (Mai), nanupala (Tam), pala (Tel)	Y	895 (785-995)	56 (49-62)	High	—	High	135
<i>Schleichera oleosa</i> Oken. (Syn. <i>Schleichera trijuga</i> Willd.)	kusum	KUS	sagade (Kan), puvam (Mal & Tam), pulusari (Tel)	Y	1 105 (1 060-1 185)	69 (66-74)	Low	a	High	155

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6) (11)
					kg/m ³ (6)	lb/ft ³ (7)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Strychnos nux-vomica</i> Linn.	kuchla	KUC	kasan, kasarika (Kan), kanjiram (Mal), yetti (Tam), mushti (Tel)	X	880 (—)	55 (—)	—	—	High	—
<i>Strychnos potatorum</i> Linn. f.	chilla	CHA	tettancottai (Tam), indu- pa (Tel)	Z	800 (—)	50 (—)	—	—	High	—
<i>Tamarindus indica</i> Linn.	imali	IML	hunse (Kan), puli (Tam), chintha (Tel)	X	915 (—)	57 (—)	—	—	Moderate	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	banappu (Kan), karu- marudu (Mal), kari- marudu, matti (Tam), nallamaddi (Tel)	X	895 (770-995)	56 (48-62)	Moderate	b	High	110
<i>Xylia xylocarpa</i> Taub	irul	IRU	jambe, tirwa (Kan), irul (Tam), konda tangedu (Tel)	X	850 (755-1010)	53 (47-63)	High	c	High	110
6. TURNERY ARTICLES										
<i>Acacia arabica</i> Willd.	babul	BAB	karijali (Kan), karuvelam (Mal), karuvai (Tam), nalla tumma (Tel)	Y	785 (720-850)	49 (45-53)	Low	b	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	yettaga (Kan), bimbu (Mal), kadambari, man- jakadambai (Tam), ban- daru (Tel)	X	705 (655-785)	44 (41-49)	Low	a	Moderate	—
<i>Albizzia chinensis</i> (Osbeck) Merr. (Syn. <i>Albizzia stipulata</i> Boivin)	siris	SIR	kalbage (Kan), pottugaka (Mal), nirusil, pilivagai (Tam), bandichinduga (Tel)	Z	400 (—)	25 (—)	Low	c	Moderate	—
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	alasua, halasu (Kan), pilavu (Mal), pila (Tam), panasa (Tel)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu (Kan), ainipi- lavu (Mal), ainipila, anjili (Tam)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	—
<i>Canthium</i> sp.	balasu	BAS	karenullu (Kan), nannul (Mal), navugu (Tam), nallabalusu (Tel)	Z	770 (—)	48 (—)	—	—	Moderate	—
<i>Cassia marginata</i> Roxb.	vakai	VAK	karun konnai (Tam)	Z	960 (—)	60 (—)	—	—	High	—
<i>Cedrela toona</i> Roxb.	toon	TOO	gandhagarige (Kan), chu- vann-gil (Mal), mala- vembu (Tam), gali- manu (Tel)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Chloroxylon swietenia</i> DC.	satinwood	SAT	muragalu (Kan), porasu (Tam), bilga, billu (Tel)	Y	960 (835-1105)	60 (52-69)	Low	—	High	—
<i>Chukrasia tabularis</i> ADr. Juss.	chickrassy	CHI	urulu (Kan), malaveppu (Mal), madagirivembu (Tam)	Z	675 (480-815)	42 (30-51)	Low	c	Moderate	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (black- wood)	ROS	biti (Kan), veeti (Mal), itti (Tam), jittengi (Tel)	X	770 (640-880)	48 (40-55)	High	—	Moderate	—
<i>Diospyros</i> sp.	ebony	EBO	tupia (Kan), thumbi (Tam), tuki, tumiki (Tel)	Y	835 (655-1105)	52 (41-69)	Low	—	Moderate	—
† <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	vella-gil (Mal & Tam)	Y	720 (595-800)	45 (37-56)	High	—	Moderate	—
29 <i>Fagara budrunga</i> Roxb. [Syn. <i>Zanthoxylum rhesa</i> (Roxb.) DC.]	mullilam	MUI	mutilam (Tam), rhesa (Tel)	Z	735 (690-815)	46 (43-51)	Moderate	—	Moderate	—
<i>Gardenia</i> sp.	gardenia	GAR	kambil (Tam)	Z	755 (690-835)	47 (43-52)	—	—	Moderate	—
<i>Gmelina arborea</i> Liun.	gasmari	GAM	kumulu (Kan), kumilu, shivane (Mal), kumil (Tam), gummadi (Tel)	Y	515 (415-610)	32 (26-38)	High	—	Moderate	—
† <i>Gyrocarpus jacquini</i> Gaertn. (Syn. <i>Gyrocarpus americanus</i> Jacq.)	tanaku	TAN	tanaku (Tel)	Z	305 (—)	19 (—)	—	—	Low	—
<i>Heptalea integrifolia</i> Planch.	kanju	KAN	thapsi (Kan), aval (Mal), ayili (Tam)	Z	1595 (480-655)	37 (30-41)	Low	b	Moderate	—
† <i>Hymenodictyon excelsum</i> Wall.	kuthan	KUT	doddathoppe (Kan), vella- kadamba (Mal), paran- joti, sagapu (Tam)	Z	480 (400-545)	30 (25-34)	Low	c	Low	—
<i>Kingiodendron pinnatum</i> (Roxb.) Harms. (Syn. <i>Hardwickia pinnata</i> Roxb.)	piney	PIN	yennamara (Kan), chuk- kanna-payini (Mal), kol- avu (Tam)	Y	635 (530-705)	39 (33-44)	High	c	Moderate	—
<i>Lagerstræmia lanceolata</i> Wall. (Syn. <i>Lagerstræmia microcarpa</i> Wight)	benteak	BEN	bendeku, nandi (Kan), vênteak (Mal), bethekku, venthekhu (Tam)	X	610 (480-705)	38 (30-44)	High	c	Moderate	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woder</i> Roxb.)	jhingan	JHI	geru (Kan), annakara, uthi (Mal), kalasan, odiyamaram (Tam), gumpini (Tel)	Y	575 (495-675)	36 (31-42)	Low	c	Moderate	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
(1)	(2)	(3)	(4)	(5)	kg/m ³	lb/ft ³	(8)	(9)	(10)	(11)
<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Syn. <i>Stephogyne parvifolia</i> Korth.)	kaira	KAI	kadamba, vimbusiraka- dambu (Mal), neduna- rai, nirkadambai (Tam)	Y	655 (595-720)	41 (37-45)	Low	b	Moderate	—
<i>Polyalthia</i> sp.	debdaru	DEB	narelai (Mal), nedunarai (Tam)	Z	640 (450-850)	40 (28-53)	Low	—	Moderate	—
<i>Pterocarpus santalinus</i> Linn. f.	red sanders	RSA	rakthachandanam (Kan & Mal), chemmaram (Tam), yerra-sandanam (Tel)	Y	1105 (900-1265)	69 (56-79)	—	—	High	—
<i>Samadera indica</i> Gaertn.	karimgotta	KAG	nanuchundan, toruvattu (Tam)	Z	400 (—)	25 (—)	—	—	Low	—
<i>Santalum album</i> Linn.	sandalwood	SAN	chandanam (Mal & Tam)	X	915 (—)	57 (—)	—	—	Moderate	—
<i>Tamarindus indica</i> Linn.	imli	IML	hunse (Kan), puli (Tam), chintha (Tel)	X	915 (—)	57 (—)	—	—	Moderate	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	saguvain, thega, thekina- mra (Kan), theku (Mal & Tam), teku (Tel)	X	690 (560-850)	43 (35-53)	High	c	Moderate	—
<i>Wrightia tinctoria</i> R. Br.	dudhi	DUD	kaduiti (Kan), palai (Tam)	Y	575 (—)	36 (—)	—	—	Low	—
<i>Wrightia tomentosa</i> Roem. et Sch.			tellapal (Tel)							
7. VENEERS AND PLYWOOD										
<i>Acrocarpus fraxinifolius</i> Wight	mundani	MUN	belanji (Kan), kuranyan, malaveppu (Mal), ma- lamkonnai (Tam)	Z	690 (465-800)	43 (29-50)	Low	c	Moderate	—
<i>Adina cordifolia</i> Hook. f.	haldu	HAL	yettaga (Kan), bimbu (Mal), kadambari, man- jakadambai (Tam), bandaru (Tel)	X	705 (655-785)	44 (41-49)	Low	a	Moderate	—
† <i>Ailanthus excelsa</i> Roxb.	maharukh	MAH	halmaddi, maddidhupa (Kan)	Y	415 (335-480)	26 (21-30)	—	—	Low	—
<i>Ailanthus malabarica</i> DC.			peenari, perumaram, pongiliyam (Mal), matti- pal, pimaram (Tam), peddamanu (Tel)							
<i>Alstonia scholaris</i> R. Br.	chatian	CHT	ezhilampala, mukampala (Mal), elalaipalai, muk- kampalai, palegaruda (Tam)	Y	415 (350-465)	26 (22-29)	Low	—	Low	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — Contd

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAC- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<i>Artocarpus heterophyllus</i> Lamk. (Syn. <i>Artocarpus integrifolius</i> Auct.)	kathal	KAT	alasua, halasu (Kan), pilavu (Mal), pila (Tam), panasa (Tel)	Y	595 (415-735)	37 (26-46)	High	—	Moderate	—
<i>Artocarpus hirsuta</i> Lamk.	aini	AIN	hebbalasu (Kan), aini- pilavu (Mal), ainipila, anjili (Tam)	Y	595 (400-755)	37 (25-47)	Low	—	Moderate	—
<i>Calophyllum</i> sp.	poon	POO	goja, salhonne, surahonne (Kan), punna (Mal), kathupinnai (Tam)	Y	655 (480-815)	41 (30-51)	Moderate	c	Moderate	—
<i>Cedrela toona</i> Roxb.	toon	TOO	gandhagarige (Kan), chu- vannagil (Mal), mala- vembu (Tam), gali- manu (Tel)	Y	515 (385-610)	32 (24-38)	Low	c	Moderate	—
<i>Cullenia excelsa</i> Wight	karani	KAR	mulluchakka (Mal), aini- pila, vedipila (Tam)	Y	640 (560-720)	40 (35-45)	Low	b	Low	—
<i>Dalbergia latifolia</i> Roxb.	rosewood (black- wood)	ROS	biti (Kan), veeti (Mal), itti (Tam), jittegi (Tel)	X	770 (640-880)	48 (40-55)	High	—	Moderate	—
<i>Dipterocarpus indicus</i> Bedd.	gurjan	GUR	yennemara (Goorg), kal- payini, kalpine (Mal), enney, vellayini (Tam)	X	785 (705-900)	49 (44-56)	Moderate	b	Moderate	—
† <i>Dysoxylum malabaricum</i> Bedd.	white cedar	WCE	vella-gil (Mal & Tam)	Y	720 (595-800)	45 (37-50)	High	—	Moderate	—
<i>Fagara budrunga</i> Roxb. [Syn. <i>Xanthoxylum rhetsa</i> (Roxb.) DC.]	mullilam	MUI	muttilam (Tam), rhetsa (Tel)	Z	735 (690-815)	46 (43-51)	Moderate	—	Moderate	—
<i>Garuga pinnata</i> Roxb.	garuga	GAU	godda, halabolagi (Kan), annakara (Mal), karu- vembu (Tam)	Z	610 (465-690)	38 (29-43)	Low	c	Moderate	—
<i>Grevillea robusta</i> A. Cunn.	silver oak	SOA	—	Y	640 (—)	40 (—)	—	—	Moderate	—
<i>Holoptelea integrifolia</i> Planch.	kanju	KAN	thapsi (Kan), aval (Mal), ayili (Tam)	Z	595 (480-655)	37 (30-41)	Low	b	Moderate	—
<i>Lagerströmia lanceolata</i> Wall. (Syn. <i>Lagerströmia microcarpa</i> Wight)	benteak	BEN	bendeku, nandi (Kan), venteak (Mal), bethek- ku, venthekhu (Tam)	X	610 (480-705)	38 (30-44)	High	c	Moderate	—
<i>Lannea coromandelica</i> Merr. (Syn. <i>Lannea grandis</i> Eng.; <i>Odina woderi</i> Roxb.)	jhingan	JHI	geru (Kan), annakara, uthi (Mal), kalasan, odiyamaram (Tam), gumpini (Tel)	Y	575 (495-675)	36 (31-42)	Low	c	Moderate	—
† <i>Lophopetalum wightianum</i> Arn.	banati	BAN	balpale (Kan), karuka, venkatavu (Mal), ven- gottai (Tam)	Z	450 (385-495)	28 (24-31)	Low	—	Low	—

TABLE V CLASSIFICATION OF TIMBERS ACCORDING TO THEIR USES, SOUTH ZONE — *Contd*

BOTANICAL NAME	STANDARD TRADE NAME	ABBRE- VIATED SYMBOL	LOCAL NAMES	AVAIL- ABILITY (see 4.1)	AVERAGE WEIGHT AND RANGE OF WEIGHTS AT 12 PERCENT MOIS- TURE CONTENT (see 4.2)		DURABILITY (see 4.3)	TREAT- ABILITY (see 4.4)	REFRAG- TORINESS TO AIR SEASONING (see 4.5)	COMPARATIVE STRENGTH COEFFICIENT ON THE BASIS OF TEAK AS 100 (see 4.6)
					kg/m ³	lb/ft ³				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
‡ <i>Machilus macrantha</i> Nees	machilus	MAC	gulamavo, gulmao (Kan), uravu (Mai), kola- mavu, kolarniavu (Tam)	Y	530 (430-625)	33 (27-39)	High	—	Low	—
‡ <i>Mangifera indica</i> Linn.	mango	MAN	mavu (Kan), mamaram (Tan), inamidi (Tel)	X	690 (610-800)	43 (38-50)	Low	a	Low	—
<i>Michelia champaca</i> Linn.	champ	CHM	sampige (Kan), chambe- gam, chempakam, shan- bagam (Tam), champa- kam (Tel)	Z	495 (400-595)	31 (25-37)	Low	c	Moderate	—
<i>Palaquium ellipticum</i> (Dalz.) Engler (Syn. <i>Dichopsis elliptica</i> Benth.)	pali	PAL	hadasale (Kan), palva- dinjan (Tam)	X	640 (495-770)	40 (31-48)	Moderate	c	Moderate	—
<i>Pterygota alata</i> R. Br. (Syn. <i>Sterculia alata</i> Roxb.)	nariikel	NAR	anathondi, pothondi (Mal), enathondi (Tam)	Z	560 (450-640)	35 (28-40)	—	—	Low	—
88 ‡ <i>Salmalia malabarica</i> Schott & Endl. (Syn. <i>Bombax malabaricum</i> DC.)	semul	SEM	ilavu, poola (Mal), ilavam (Tam), buruga (Tel)	Y	385 (255-530)	24 (16-33)	Low	a	Low	—
<i>Syzygium</i> sp. (Syn. <i>Eugenia</i> sp.)	jamnan	JAM	nerlu, nerula (Kan), naval (Mal & Tam), neredu (Tel)	Y	850 (705-1025)	53 (44-64)	Moderate	c	High	—
<i>Tectona grandis</i> Linn. f.	teak	TEA	saguvain, thega, theki- namra (Kan), theku (Mal & Tam), teku (Tel)	X	690 (560-850)	43 (35-53)	High	c	Moderate	—
<i>Terminalia paniculata</i> Roth	kindal	KJN	honagalu, honal, hunal (Kan), pillamarudu (Mal & Tam), nalla- pulaga (Tel)	X	800 (720-895)	50 (45-56)	Moderate	c	High	—
<i>Terminalia tomentosa</i> Wight et Arn.	laurel	LAU	banappu (Kan), karu- marudu (Mal), kari- marudu, matii (Tam), nallamaddi (Tel)	X	895 (770-995)	56 (46-62)	Moderate	b	High	—
<i>Tetrameles nudiflora</i> R. Br	maina	MAI	bolur (Kan), chini (Mal & Tam)	X	320 (—)	20 (—)	Low	a	Low	—
‡ <i>Trewia nudiflora</i> Linn.	gutel	GUT	naikumpil, pamambara- kumbi, thavala (Mal), kumbala (Tam)	Y	450 (—)	28 (—)	Low	—	Low	—
<i>Vateria indica</i> Linn.	vellapine	VEL	dhup, kaidhupa (Kan), payin, vellakunthirikam (Mal), vellaikundrikam, vellapayini (Tam)	X	595 (480-690)	37 (30-43)	Low	c	Low	—

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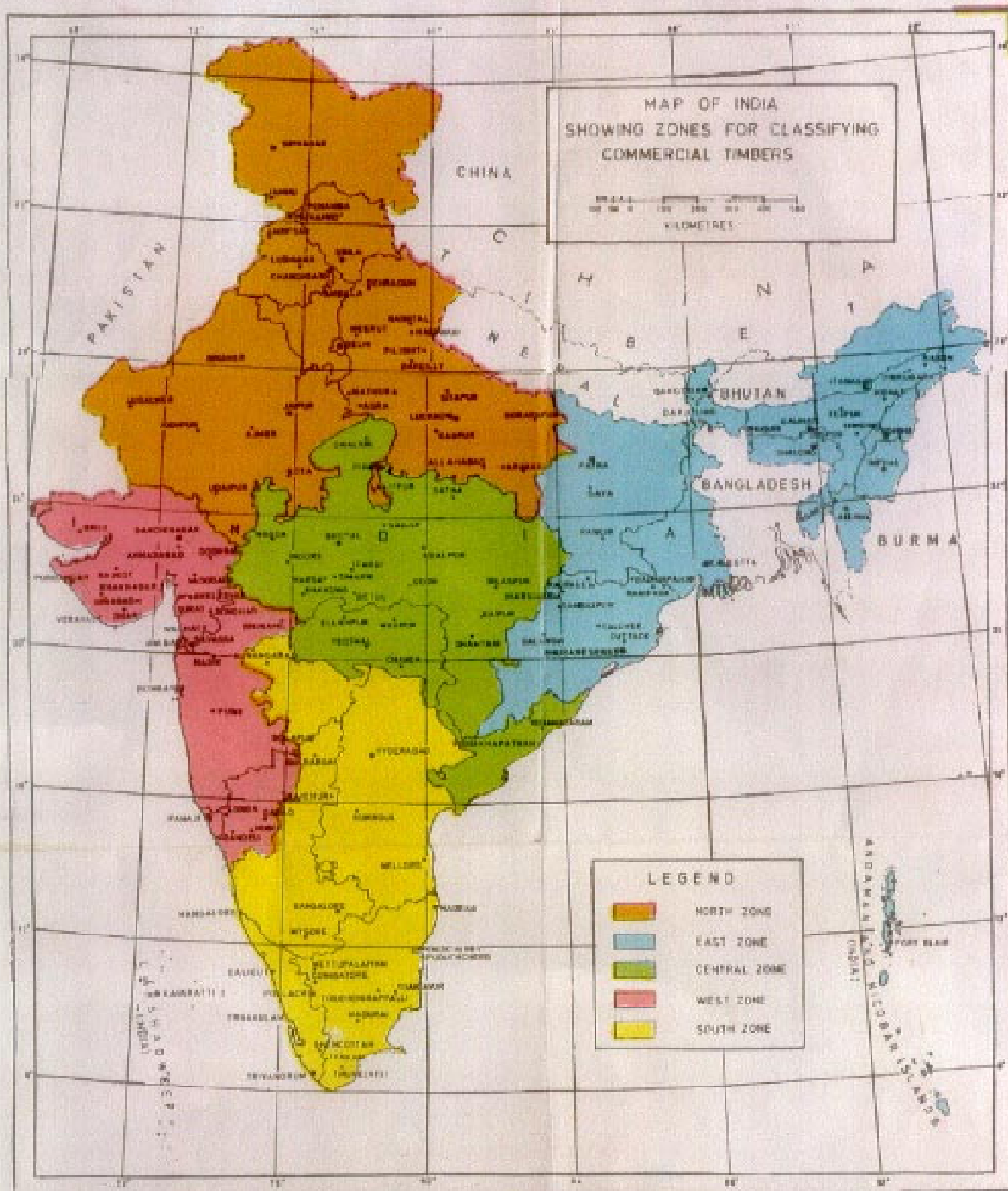
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saro	<i>Cupressus torulosa</i> Don	7, 9, 11	suan	<i>Soymida febrifuga</i> A. Juss.	21, 25, 31
saru	<i>Casuarina equisetifolia</i> Linn.	43	suji	<i>Cryptomeria japonica</i> D. Don	25
satiana	<i>Alstonia scholaris</i> R. Br.	26	sum	<i>Fraxinus</i> sp.	8, 10, 14, 15
satinwood	<i>Chloroxylon swietenia</i> DC.	23, 36, 38, 40, 44, 46, 50, 54, 57, 63, 65	surai	<i>Cupressus torulosa</i> Don	7, 9, 11
satisal	<i>Dalbergia latifolia</i> Roxb.	19, 23, 30, 32	surahonne	<i>Calophyllum</i> sp.	54, 57, 61, 67
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satwin	<i>Alstonia scholaris</i> R. Br.	12, 16, 47, 51	suria	<i>Xylia xylocarpa</i> Taub.	37
saur	<i>Betula</i> sp.	23, 31	suru	<i>Casuarina equisetifolia</i> Linn.	43
sauri	<i>Salmalia malabarica</i> Schott & Endl.	48, 52			
sauriya	<i>Xylia xylocarpa</i> Taub.	37			
savukku	<i>Casuarina equisetifolia</i> Linn.	54			
sawar	<i>Salmalia malabarica</i> Schott & Endl.	48, 52			
seleng	<i>Sapium baccatum</i> Roxb.	27			
semal	<i>Salmalia malabarica</i> Schott & Endl.	12, 17, 39, 42			
semul	<i>Salmalia malabarica</i> Schott & Endl.	12, 17, 27, 39, 42, 48, 52, 60, 68			
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semur	<i>Salmalia malabarica</i> Schott & Endl.	39, 42			
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shahtut	<i>Morus</i> sp.	11			
shala	<i>Boswellia serrata</i> Roxb.	12			
shanbagam	<i>Michelia champaca</i> Linn.	58, 68			
sharol	<i>Alnus nepalensis</i> Don	12			
shaur	<i>Tectona grandis</i> Linn. f.	21, 25, 30			
shegun	<i>Betula</i> sp.	10, 15			
sheori	<i>Dalbergia sissoo</i> Roxb.	8, 10, 14, 15, 16, 20, 23, 31, 32, 34			
shisham	<i>Dalbergia latifolia</i> Roxb.	36, 38, 40 (2), 41, 44, 46, 49, 50, 51			
shivane	<i>Gmelina arborea</i> Linn.	54, 58, 60, 62, 65			
shivani	<i>Gmelina arborea</i> Linn.	44, 46, 47, 48, 50, 52			
shiwan	<i>Albizzia lebbeck</i> Benth.	7, 10, 16			
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tenthra	<i>Albizzia procera</i> Benth.	18, 23, 33	vagai }	<i>Albizzia lebbeck</i> Benth.	53, 57
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tettancottai	<i>Strychnos potatorum</i> Linn. f.	64	vakai	<i>Cassia marginata</i> Roxb.	64
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thadasalu }	<i>Grewia</i> sp.	44, 49	vattakannu	<i>Kydia calycina</i> Roxb.	60
thadsal	<i>Terminalia bellirica</i> Roxb.	63	vayal	<i>Pæclonuron indicum</i> Bedd.	55
thanni	<i>Holoptelia integrifolia</i> Planch.	60, 65, 67	vedipila	<i>Cullenia excelsa</i> Wight	54, 59, 67
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the kinamra }	<i>Tectona grandis</i> Linn. f.	56, 59, 62,	vella-gil	<i>Dysoxylum malabaricum</i> Bedd.	58, 61, 65, 67
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thumbi	<i>Diospyros</i> sp.	54, 58, 63, 65	vellakadam	<i>Hymenodictyon excelsum</i> Wall.	65
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tinnaś	<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut	8, 14	vellanava	<i>Vateria indica</i> Linn.	48, 52, 61, 68
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tita-sopa	<i>Michelia baillonii</i> Finet et Gagnep	24, 29, 33	vellayini	<i>Kydia calycina</i> Roxb.	60
tiwas	<i>Michelia champaca</i> Linn.	24	vellilava		
toon	<i>Ougeinia oojeinensis</i> (Roxb.) Hochreut	37, 40, 49	velukku	<i>Pterocarpus marsupium</i> Roxb.	56, 58
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uchal	<i>Pinus insularis</i> Endl.	18, 22, 25			
udal	<i>Sterculia villosa</i> Roxb.	27, 60			
uli	<i>Mangifera indica</i> Linn.	24, 27, 29, 35			
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vennamara	<i>Kingiodendron pinnatum</i> (Roxb.) Harms.	55, 58, 62, 65	yetti	<i>Strychnos nux-vomica</i> Linn.	56, 64
yennemara	<i>Dipterocarpus indicus</i> Bedd.	54, 61, 67	yin-mabin	<i>Chukrasia tabularis</i> Ait.	19, 23, 32, 34
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yettaga	<i>Adina cordifolia</i> Hook. f.	53, 57, 61, 64, 66	zinbyun	<i>Dillenia</i> sp.	20, 28, 34



Based upon Survey of India map, with the permission of the Surveyor General of India.

The boundary of Meghalaya shown on this map is as interpreted from the North-East Areas (Reorganisation) Act, 1971, but has yet to be verified.

The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line.

Responsibility for the correctness of internal details shown on the maps rests with the publisher.

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TO

IS:399-1963 CLASSIFICATION OF COMMERCIAL TIMBERS AND THEIR ZONAL
DISTRIBUTION(Revised)

Consequent upon revision of IS:1150-1957 Abbreviated Symbols for Timber Species, the Sectional Committee responsible for the preparation of this standard felt that corresponding changes would become necessary in this standard also. This amendment is, therefore, being issued to incorporate all those changes.

Corrigenda

(Pages 7,10,11, col 3) — Substitute 'KAL' for 'KAI' wherever it appears on these pages.

(Page 46, col 3) — Substitute 'KAI' for 'KANI'.

(Pages 8, 11, 13, 16, 21, 24, 29, 33, 38, 41, 51, 58, 66, col 3) — Substitute 'KAI' for 'KAM' wherever it appears on these pages.

(Page 26, col 3) — Substitute 'KAM' for 'KAB'.

(Pages 28,30 col 3) — Substitute 'KAC' for 'KAN' wherever it appears on these pages.

(Pages 10, 12, 15, 17, 24, 26, 32, 34, 38, 40, 42, 60, 65, 67, col 3) — Substitute 'KAN' for 'KAJ' wherever it appears on these pages.

(Page 19, col 3) — Substitute 'KAA' for 'KAR'.

(Pages 54, 59, 67, col 3) — Substitute 'KAR' for 'KAA' wherever it appears on these pages.

(Pages 21, 25, col 3) — Substitute 'PAA' for 'PAD' wherever it appears on these pages.

(Pages 9, 11, 13, 21, 30, 37, 45, 47, 49, 56, 59, 62, col 3) — Substitute 'PAD' for 'PAR' wherever it appears on these pages.

(Pages 14, 16, col 3) — Substitute 'PAR' for 'PAO'.

(Pages 8, 19, 36, 43)

a) Col 2 — Substitute 'amaltas' for 'rajbrikh'.

b) Col 3 — Substitute 'AMT' for 'RAJ',
wherever they appear on these pages.

(1)

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(Pages 19, 23, 32)

- a) Col 2 — Substitute 'chestnut' for 'Indian chestnut',
 - b) Col 3 — Substitute 'CHE' for 'ICH',
- wherever they appear on these pages.

(Pages 27, 35)

- a) Col 2 — Substitute 'didu' for 'semul',
 - b) Col 3 — Substitute 'DID' for 'SEM',
- wherever they appear on these pages.

(Pages 22, 26)

- a) Col 2 — Substitute 'hemlock' for 'Indian hemlock',
 - b) Col 3 — Substitute 'HEM' for 'IHE',
- wherever they appear on these pages.

(Pages 14, 16)

- a) Col 2 — Substitute 'olive' for 'Indian olive',
 - b) Col 3 — Substitute 'OLI' for 'IOL',
- wherever they appear on these pages.

(Pages 7, 14, 19, 30, 36, 39, 43, 49, 53, 63, col 2) — Add '(bakli)' after 'axlewood'.

(Page 25, col 2) — Add '(dhumi)' after 'suji'.

(BDC 9)